TTP Bridge - Application and Inspection
National Transportation in Indian Country Conference
Big Sky, MT
September 18, 2019
Topics:

• FY19 TTP Bridge Program Funds
• TTP Bridge Program – 23 CFR Part 661
• TTP Bridge Application Process
• FY19 NBI Data Submittal/InfoBridge
• Tribal Bridge Inspection Process
• Bridge Inspection Organization
• TTP Bridge Program Regulations Update
FY19 TTP Bridge Funds

- Funds made available = $13.5M
- Received 33 bridge applications for $34M total funding request
- Funded 21 bridge projects for $13.5M
- 4 from FHWA Tribes; 17 from BIA Tribes
- 12 bridge projects not funded and 2 partially funded for $20.5M
### FY19 TTP Bridge Funds

<table>
<thead>
<tr>
<th>No.</th>
<th>Fiscal Year</th>
<th>BIA Region / FHWA Tribe</th>
<th>Owner</th>
<th>Structure Number</th>
<th>Reservation</th>
<th>Project Name</th>
<th>Funds Allocated</th>
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<tbody>
<tr>
<td>1</td>
<td>FY19</td>
<td>Alaska Region</td>
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<td>2</td>
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<td>H004</td>
<td>Colorado River</td>
<td>Mojave Road Bridge</td>
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**TOTAL** $13,560,583.83
## TTP Bridge Funds

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<th>AUTHORIZATION</th>
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<th>FUNDING</th>
<th>No. OF BRIDGE PROJECTS FUNDED</th>
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<tr>
<td>MAP-21</td>
<td>2013-2015</td>
<td>$9 million/year</td>
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<td>FAST Act</td>
<td>2016-2019</td>
<td>$14 million/year (+/-)</td>
<td>101</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$14 million/year (+/-)</strong></td>
<td><strong>395</strong></td>
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</table>
• Rehab or replace only existing TTP bridges
• Eligible Activities
  – Construction (CN)
  – Construction Engineering (CE)
  – Preliminary Engineering (PE)
  – Planning (including bridge inspection)
• Criteria for Eligibility
  – Have opening of 20 ft. or more
  – Be on the NTTFI
  – Structurally deficient or functionally obsolete
  – Be recorded on the FHWA NBI
• Submission Package for PE:
  – Approved Tribal TIP
  – SI&A sheet
  – Certification checklist
  – Project scope of work
  – Detailed cost for PE
  – Tribal resolution supporting the project for non-BIA bridge and the min. 20% local funding match
• Submission Package for CN:
  – Approved Tribal TIP
  – Approved PS&E
  – SI&A sheet
  – Certification checklist
  – Tribal resolution supporting the project for non-BIA bridge and the min. 20% local funding match
### USE OF THIS DOCUMENT IS SUBJECT TO 23 USC SEC 409.

<table>
<thead>
<tr>
<th><strong>IDENTIFICATION</strong></th>
<th><strong>CLASSIFICATION</strong></th>
<th><strong>CONDITION</strong></th>
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<td>STRUCTURE: 052130000000000</td>
<td>CODE: 1410314C0</td>
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<tr>
<th><strong>STATE: OK</strong></th>
<th><strong>Structure: 052130000000000</strong></th>
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<tbody>
<tr>
<td><strong>Federal Agency:</strong> N</td>
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#### YEAR: 19, STATE: OK, STRUCTURE: 052130000000000, FEDERAL AGENCY: N

**BRIEF DESCRIPTION:**
- **Location:** 1E OF DAISY
- **Kilometer Point:** 0
- **Base Highway Network Code:** 0
- **Inventory Route & Subroute:** E1710
- **LRS INVENTORY ROUTE & SUBROUTE:** 1410314C0
- **Location:** 1E OF DAISY
- **Kilometer Point:** 0
- **Base Highway Network Code:** 0
- **Inventory Route & Subroute:** E1710
- **LRS INVENTORY ROUTE & SUBROUTE:** 1410314C0

#### **STRUCTURE TYPE AND MATERIAL**
- **Type:** Slab
- **Code:** 201
- **Not Applicable:**

#### **LOAD RATING AND POSTING**
- **Design Load:** HS20 or MS 18
- **Rating Method:** Load Factor
- **Rating:** MS10.61
- **Inventroy Rating:** MS10.61
- **Bridge Posting:** No Posting Required
- **Structure Open, Posted or Closed:** P
- **Description:** Posted For Load

#### **APPRAISAL**
- **Structural Evaluation:** 5
- **Deck Geometry:** 6
- **Underclearance, Vertical & Horizontal:** N

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**Geometric Data**
- **Length of Maximum Span:** 3.00 M

**Age and Service**
- **Year Built:** 1937
- **Year Reconstructed:**
- **Type of Service:** Highway
- **On:** Waterway
- **Under:** Waterway
- **Average Daily Traffic:** 150
- **Year of ADT:** 2016
- **Truck ADT %:** 15
- **ByPass, Detour Length:** 5 KM
- **Structural Evaluation:** 5
- **Deck Geometry:** 6
- **Underclearance, Vertical & Horizontal:** N
TRIBAL TRANSPORTATION PROGRAM BRIDGE PROJECT (FAST ACT) PLANS, SPECIFICATIONS, AND ESTIMATE CERTIFICATION CHECKLIST FOR

TTP BRIDGE PROJECT (23 USC 202)

Project Name: Route 1 - Bridge H004
Structure No. (item 8): H004 ID Number: H5174100 Region: Western
Agency: Colorado River Reservation: Colorado River Indian Reservation
County: La Paz State: Arizona
Project Location: Approximately 8.2 miles south of Parker on Route 1 (0.4 mi north on BIA Rte. 1 from the intersection with BIA Rte. 16).

General Description of Work: Remove and dispose of existing bridge, installation of temporary traffic diversion including temporary bridge, construct permanent bridge approximately 90 feet in length, relocate and reconnect utilities, install guardrail, place signs and apply striping for approximately 0.479 miles on BIA Route 1.

Ownership: X BIA ___ non-BIA If non-BIA owned, provide the following:
Name of Owner: Western Regional Office Point of Contact: David R Smith, Regional Roads Engineer
Point of Contact’s Phone No.: (602) 379-6782, extension 1346

Sufficiency Rating: 4.1 (Note: Attach St&A data sheet on which this project is based)
Status: X Structurally deficient or ___ Functionally Obsolete
Type of Construction: X Replacement, or ___ Rehabilitation ADT (item 29): 3,000 (year 2016)
Detour Length (item 19) ___ (km) Truck ADT (item 109) ___% Function Class (item 26): 07
Do school buses use this bridge: X Yes ___ No How many trips per day: 10
Safety issues involved with this project: None.
Does the bridge project have Right-of-Way: X Yes ___ No If yes, date obtained: 12/12/1961
NEPA Compliance Date: 1/23/2018
Archeological/Cultural Resources Compliance Date: 11/30/2016
Bridge TIP Approval Date: 12/03/2018
Estimated cost of construction contract (funds requested):

| Construction | $1,638,608 |
| Construction Management | $120,000 |
| Total | $1,758,608 |

Amplifying remarks

Regional Roads Engineer (approval): [Signature] Date: 01-38-2019
Regional Director (approval): [Signature] Date: 02/01/2019
23 CFR Part 661.23: How will a bridge project be programmed for funding once eligibility has been determined?

(a) All projects will be programmed for funding after a completed application package is received and accepted by the FHWA. At that time, the project will be acknowledged as either BIA and Tribally owned, or non-BIA owned and placed in either a PE or a construction queue.
(b) All projects will be ranked and prioritized based on the following criteria:

(1) Bridge sufficiency rating (SR);

(2) Bridge status with structurally deficient (SD) having precedence over functionally obsolete (FO);

(3) Bridges on school bus routes;

(4) Detour length;

(5) Average daily traffic; and

(6) Truck average daily traffic.
TTP Bridge Program – 23 CFR 661

$14.85 million before
takedown (FY19)

Preliminary
Engineering
( 15%)

- Up to 80% for BIA
  & Tribal bridges
  - Not to exceed
    $150,000 for each
    project
  - Minimum
    20% match required

- Not less than 20%
  for Non-BIA
  - Not to exceed
    $150,000 for each
    project

Construction
( 85%)

- Up to 80% for BIA
  & Tribal bridges
  - 100% funding for BIA
    & Tribal bridges

- Not less than 20%
  for Non-BIA
  - Not to exceed
    $1 million for each
    project
  - Minimum
    20% match required
TTP Bridge Application Process

- **FHWA Agreement Tribes.** Procedures for FHWA Agreement Tribes submitting application for TTP Bridge funding:
  1. The Tribe verifies if the bridge is eligible for TTP Bridge funding
  2. Tribe coordinates with the TC in preparing the application package
  3. TC submits the application package to the FHWA TTP Bridge Program Manager (PM)
  4. PM reviews the application for completeness and puts the application in the queue for ranking
• **BIA Tribes.** Procedures for BIA Tribes submitting application for TTP Bridge funding:

1. The Tribe verifies if the bridge is eligible for TTP Bridge funding
2. Tribe coordinates with the BIA Region in preparing the application package
3. BIA Region submits the application package to BIADOT
4. BIADOT Bridge Program Manager reviews the application for completeness
TTP Bridge Application Process

- **BIA Tribes.** Procedures for BIA Tribes submitting application for TTP Bridge funding:
  5. BIADOT submits the application to FHWA/OTT for funding request
  6. FHWA/OTT notifies BIADOT status of bridge applications

- The list of all bridge projects to be funded is coordinated with the BIADOT prior to the allocation of bridge funds
FY19 NBI Data Submittal

• BIA NBI Inspection Data Submittal – 1,005 BIA bridge records
• Tribal NBI Inspection Data Submittal – 72 Tribal bridge records
  – 12 bridge records from Port Graham
  – 12 bridge records from Hydaburg
  – 13 bridge records from PBPT (BIA Tribe)
  – 1 bridge record from Fort Yukon
  – 1 bridge record from Shakopee (BIA Tribe)
  – 3 bridge records from Klawock
  – 1 bridge record from Crooked Creek (BIA Tribe)
  – 1 bridge record from Elim (BIA Tribe)
  – 2 bridge records from Coquille (BIA Tribe)
  – 26 bridge records from Eastern Band of Cherokee

https://infobridge.fhwa.dot.gov/
Tribal Bridges Update

- **FHWA Agreement Tribes** – 100 tribal bridges in FY20
  - 54 tribal bridges recorded in FY19 (routine inspections)
  - 29 tribal bridges (initial inspections by EFL)
  - 17 tribal bridges (initial inspections by BIA)

- **BIA Tribes** – 74 tribal bridges in FY20
  - 18 tribal bridges recorded in FY19
  - 56 tribal bridges (initial inspections by BIA)

- **Anticipating 174 tribal bridges to be recorded in the NBI in FY20**
InfoBridge
# National Bridge Inventory (NBI) - 2018

## Attribute | Value
--- | ---
Deck Condition (S) | B - Very Good Condition
Superstructure Condition (S) | B - Very Good Condition
Substructure Condition (S) | B - Very Good Condition
Culvert Condition (S) | N - Not a culvert
Channel Protection Condition (S) | 8 - Channel protection is stabil
Structural Evaluation Appraisal (S) | B - Equal to Present Desirable Criteria
Deck Geometry Appraisal (S) | B - Equal to Present Minimum Criteria
Scour Critical Bridges Code (S) | B - Foundations stable. Scour above top of footing
Underclearance Appraisal Vertical Horizontal (S) | N - N/A
Waterway Adequacy Appraisal (S) | 9 - Superior to Present Desirable Criteria
Approach Alignment Appraisal (S) | 0 - Equal to Present Desirable Criteria
Bridge Railings (S) | 1 - Meets currently acceptable standards
Transitions (S) | 1 - Meets currently acceptable standards
Approach Guardrail (S) | 1 - Meets currently acceptable standards
Bridge Guardrail Ends (S) | 1 - Meets currently acceptable standards
InfoBridge

Bridge Location and Data Availability

Data Availability

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<th>Year</th>
<th>NBI</th>
<th>NBE</th>
<th>Climate Data</th>
<th>LTBP</th>
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<td>2017</td>
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<tr>
<td>2016</td>
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Map | Satellite | White
## Bridge Selection and Data Presentation

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# InfoBridge: Data

## Bridge Selection and Data Presentation

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[View Bridges]
Tribal Bridge Inspection Process

- **FHWA Agreement Tribes.** Procedures for FHWA Agreement Tribes requesting initial inspection of tribally owned bridges for inclusion in the FHWA NBI:
  1. The Tribe verifies the tribal bridge is a public bridge, 20 ft. or more in opening
  2. Tribe to coordinate with the TC to fill out the tribal bridge inspection request form
  3. Submit the request form to the FHWA TTP Bridge Program Manager (PM)
  4. PM submits the request form to EFL Bridge
Continuation:

6. Once inspected, a copy of the inspection report and the 432 text file to the FHWA PM and to the EFL Bridge Management Team for 2nd level review

7. Once approved, 432 text file is submitted to FHWA HQ Office of Bridges & Structures for recordation in the FHWA NBI

- https://flh.fhwa.dot.gov/programs/ttp/bridges/bip.htm
Tribal Bridge Inspection Process

- **BIA Tribes.** Procedures for BIA Tribes requesting initial inspection of tribally owned bridges for inclusion in the FHWA NBI:
  1. The Tribe verifies the tribal bridge is a public bridge, 20 ft. or more in opening
  2. Tribe to coordinate with the BIA Region to fill out the tribal bridge inspection request form
  3. Submit the request form to the BIA TTP Bridge Program Manager (PM)
  4. PM submits the request form to the BIADOT’s consultant or in-house inspection team
Continuation:

5. Once inspected, BIADOT sends a copy of the 432 text file to the FHWA PM and to the EFL Bridge Management Team for 2nd level review.

6. Once approved, 432 text file is submitted to FHWA HQ Office of Bridges & Structures for inclusion in the FHWA NBI.

- [https://flh.fhwa.dot.gov/programs/ttp/bridges/bip.htm](https://flh.fhwa.dot.gov/programs/ttp/bridges/bip.htm)
Tribal Bridge Inspection Process

Requesting Initial Inspection of Tribally Owned Bridges Flowchart

1. Tribe Identifies Bridge
2. No further action required
3. Road identified in NTRI and coded as Tribally owned:
   - Yes
     - Tribe coordinates with the FHWA TC or BIA Region to fill out the tribal bridge inspection request form
   - No
     - Is the bridge publicly owned?
       - Yes
         - Tribe coordinates with the FHWA TC or BIA Region to fill out the tribal bridge inspection request form
       - No
         - Is the bridge 20' or more in length?
           - Yes
             - Tribe coordinates with the FHWA TC or BIA Region to fill out the tribal bridge inspection request form
           - No
             - No further action required
   - No further action required
   - No further action required
TRIBAL BRIDGE INSPECTION FORM

TRIBE INFORMATION
TRIBE NAME: Eastern Band of Cherokee Indians

BRIDGE LOCATION
CITY: Cherokee
STATE: NC
LATITUDE: 35.48522000
LONGITUDE: 83.18012000

BRIDGE INFORMATION
BRIDGE/STRUCTURE OWNER: EBCI
ROUTE OWNER (IF DIFFERENT): T-007
BRIDGE ID NUMBER (IF KNOWN): Copperhead Rd
BRIDGE NAME: 4317
ROUTE NAME: 20
SECTION NUMBER: 320 FT 0 IN
BRIDGE/STRUCTURE LENGTH: Unknown
YEAR BUILT: Unknown

BRIDGE INSPECTION INFORMATION
LAST INSPECTION DATE: 01/07/2018
INSPECTED BY: Vaughn & Mollen CE
REPAIRS MADE SINCE INSPECTION: YES
REPAIR DATE: NO

COMMENTS:

INFORMATION APPROVED BY: [Signature] DATE: [Date]
23 CFR 650 Subpart C (NBIS) is being updated, and one of the updates is to clarify the responsibilities of the bridge inspection organization for each State DOT, Federal agency, and the Tribal government.

- An organization is in place to inspect, or cause to inspect, all highway bridges on public roads.
- Organizational roles and responsibilities are clearly defined and documented for each of the following aspects of the NBIS: policies and procedures, QC/QA, preparation and maintenance of a bridge inventory, bridge inspections, reports, and load ratings.
- Functions delegated to other agencies are clearly defined and the necessary authority is established to take needed action to ensure NBIS compliance.
- A program manager (PM) is assigned the responsibility for the NBIS.

A Tribal government may delegate the responsibilities to the BIA, if it’s a BIA Tribe, or to the FLH, if it’s a FHWA Tribe. A Tribal government that does not delegate the responsibilities to either BIA or FLH would need to provide a bridge inspection organization.
Bridge Inspection Organization

- EFL Bridge is delegated to function as the PM for FHWA Tribes’ 83 Tribal bridge inspection
- BIADOT will be the PM for the BIA Tribes’ tribal bridge inspection
- EFL Bridge is assisting BIADOT in inspecting 172 overdue routine inspections for Navajo BIA owned bridges
**Action: Notice of Proposed Rulemaking (NPRM)**

- The rulemaking will update the IRR Bridge Program regulations, align it with the changes made under MAP-21 and the FAST Act.
- Delete the structurally deficient, functionally obsolete, and sufficiency rating language to align the TTP Bridge Program terminology for bridge conditions with the terminology used for State DOTs in the Federal-aid Highway Program.
- New terminology for condition ratings: Good, Fair, and Poor
- NPRM Designation: Non-significant
- Planned Publication Date in the Federal Register: May 2020
- Request for Comments Deadline: 60 days after publication in the Federal Register
Questions???

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