

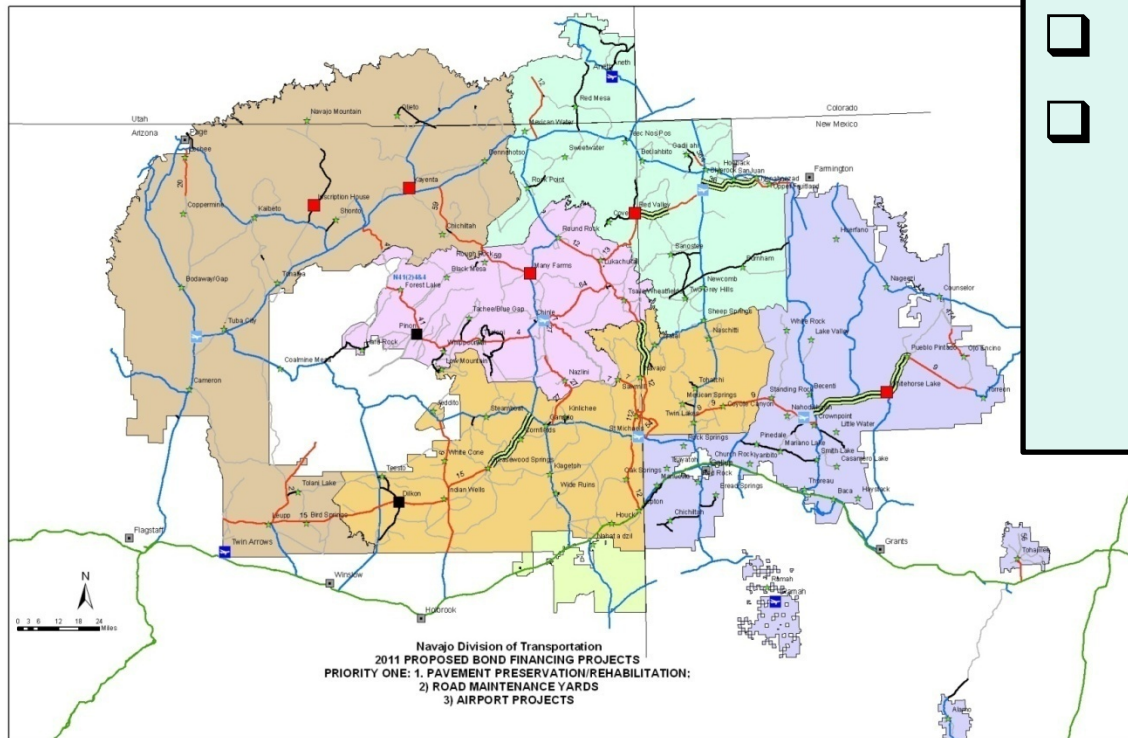


“Navajo DOT: Direct Federal Funding and Project Priorities”

ASCE and ASHE Annual State Conference

Phoenix, AZ

September 11, 2014



- 2010 Inventory
- Total =14,733 miles
State – 1,642 miles
Counties – 1,864 miles
BIA – 6,217 miles
NN – 5,010 miles

- Total Paved Roads = 3,381 miles (23%)
- Total Unpaved Roads = 11,352 miles (77%)
Total Graveled Roads = 234 miles
- Road Construction/Maintenance is a partnership with 3 State DOTs, 11 County DOTs and the BIA



Direct Funding from FHWA

- ❑ Previously, BIA used to manage the Navajo Nation's Road Construction Funds based on an approved Navajo Nation Tribal Transportation Improvement Program (NNTTIP)
- ❑ February 2012 – Navajo Nation receives Direct Funding from FHWA and manages its Road Construction Fund, including Programming the NNTTIP
- ❑ Authorizes the Nation to perform planning, design, construction and maintenance of highways, roads, and bridges
- ❑ BIA will continue to perform “inherent federal functions” such as right-of-way approvals and road inventory



FHWA - \$54.6 M

FY2014
NAVAJO NATION TRIBAL
TRANSPORTATION IMPROVEMENT
(NNTTIP) PROGRAM

NAVAJO NATION

BIA
NAVAJO REGION
\$38.1

NAVAJO DOT
\$16.5 M

- Design (PE)
- Construction
- Construction Engineering
- Road Maintenance

- Program Administration
- Transportation Planning
- NEPA & ROW
 - Archaeology
 - Environmental
 - Right-of-Way
- Airports / Highway Safety
- Construction
- Road Maintenance



Tribal Transportation Improvement Program (TTIP)

- FY2013 – Reduce TTIP from 38-Year “Wish List” to 5-Year “Focused List”
- FY2014 – Develop 5-Year “Financially Constrained” TTIP
- NDOT collaborated extensively with BIA to discuss TTIP project updates and expenditures
- Transition from 5-Agency to 24-Region Stakeholder Input
- Develop New Public Participation Process





Sample NNTTIP Project



Tribal Transportation Program Transportation Improvement Program

Agency: Priority No.:
 Tribe: To Be Delivered by: Date:
 Funding Source: (Bridge, 2% Planning, Safety, etc) Current FY:

PROJECT INFORMATION: Is Project on Current LRTP? Include In STIP STIP Amount

Project Name:
 Location:
 Type of Work:
 Route Num and Section: Project Number:
 Length: Miles County:
 State: Construction Year:
 Comments:

Activity	2015	2016	2017	2018	2019	TOTAL
Administration	\$0	\$0	\$0	\$0	\$0	\$0
Planning	\$0	\$0	\$0	\$0	\$0	\$0
Preliminary Engineering	\$100,000	\$25,000	\$25,000	\$5,000	\$0	\$155,000
Construction	\$0	\$0	\$5,000,000	\$5,000,000	\$0	\$10,000,000
Construction Engineering	\$0	\$0	\$150,000	\$150,000	\$0	\$300,000
Transit	\$0	\$0	\$0	\$0	\$0	\$0
Maintenance	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$100,000	\$25,000	\$5,175,000	\$5,155,000	\$0	\$10,455,000



Navajo Nation's Unmet Transportation Needs

- Cost to improve 5,955 miles** to meet design standards will cost **\$6.5 Billion**
- Cost to address pavement deficiencies** of 1,341 miles of paved roads alone will cost **\$1.4 Billion**
- Navajo Nation will need **\$7.9 Billion**
- Cost is Seven Times the current 20-Year Funding Level** of \$1 Billion or \$50 Million per year

Source: 2009 Navajo Nation Long Range Transportation Plan



Navajo Nation Road Construction Funds from FHWA

- ❑ Navajo Nation receives about **\$54 Million**
- ❑ Approximately 20% goes towards Road Maintenance and Safety Projects – **\$11 Million**
- ❑ Approximately 9% goes towards Preliminary Engineering & Construction Engineering - **\$5 Million**
- ❑ Which leaves **\$38 Million for Construction**
 - It costs **\$2 Million to Pave One (1) Mile**
 - We can only **build 19 miles** of Roads Annually
 - If bridges are included, road miles decrease



Navajo Nation Long Range Transportation Plan

- **Scope of Work**
 - Establish Management Team
 - Existing Conditions Assessment
 - Future Conditions
 - Initial Public Involvement Activities
 - Improvement Strategies
 - Public Involvement
 - Long Range Transportation Plan



Navajo Nation Long Range Transportation Plan

□ Task 2: Existing Conditions

- Goal 1: Take Care of the System
- Goal 2: Create Connections
- Goal 3: Provide Options
- Goal 4: Promote Economic Development
- Goal 5: Enhance Safety
- Goal 6: Maximize Transportation Investment Effectiveness
- Goal 7: Enhance Existing Partnerships and Create New Partnerships



Navajo Nation Long Range Transportation Plan

□ Task 2 Findings

- Little to no LRTP and TTIP process awareness
- Community based planning to use Service Areas
- Pedestrian and bicycle accommodations
- Establish standard cross sections
- Need to integrate safety
- Last plan only had “earth” or “paved” options



Navajo Nation Long Range Transportation Plan

□ Task 5: Improvement Strategies

- Refine TTIP Process
- Refine TTIP Scoring to reflect goals
- Integrate Safety
- Need to define system goals
- Any refinements to cross sections
- Pavement versus Gravel versus Earth roads
- Pedestrian and Bicycle Accommodations



Transportation Challenges

- ❑ **Scope of Work – Grade, Drain and Gravel road improvement with culvert installations**
 - Survey, alignment, borrow source, and drainage studies
 - Cultural Resources, Biological Evaluation and Environmental Assessment – Clearances Required
 - 401/404 Permits
 - Procurement of Materials
 - Estimated Cost = \$400,000 per mile
 - Navajo DOT equipment and personnel



“Red Dog Graveling Partnership Improves Quality of Life for the Black Mesa Region”

❑ Issues:

- Hundred of miles in need of maintenance in Black Mesa
- Expensive Haul-Cost to “Import Material” in Remote Locations

❑ Solutions:

- Partnership between Navajo Nation, Navajo County, BIA, Peabody Coal, School Districts & Black Mesa Region Chapters
- Availability of “Red Dog” Gravel from Peabody Coal Mine
- Cost-Sharing to Crush, Haul and Place Gravel on Problem Areas





“NDOT and Tohajiilee Chapter Partner with Bernalillo County to Pave 3 Miles”

❑ Issues:

- Improve Dirt Roads to Chapter and Healthcare Facilities
- Paving one mile cost \$1 Million

❑ Solutions:

- Partnership between NDOT, Tohajiilee Chapter & Bernalillo County
- NDOT and Tohajiilee Chapter provided 11,792 Tons of Asphalt
- Bernalillo County provided in-kind services using their equipment and manpower



❑ Cost-Sharing:

- Navajo DOT = \$441,786
- Tohajiilee Chapter = \$295,000
- Bernalillo County = \$736,786
- **Total Funds = \$1,473,572**



“After 20 Years, Huerfano Bridge over Gallegos Wash will be replaced”

❑ Issues:

- 356-Foot Long Single Lane “Military Bridge” built in 1978
- Functionally Obsolete & Structurally Deficient

❑ Solutions:

- Partnership between Navajo Nation, San Juan County, NMDOT, FHWA & Huerfano Community
- MOU/IGA between Navajo Nation and San Juan County
- Cost-Sharing to Fund \$2.55 Million in Construction



❑ Cost-Sharing:

- Navajo Nation = \$1,500,000
- San Juan County = \$401,520
- NMDOT/FHWA = \$648,480
- **Total Funds = \$2,550,000**



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