



Structures Division Needs and Accomplishments

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Presentation Outline

- Bridge Projects
 - Bridge replacement/rehabilitation
 - Bridge preservation
- Bridge Programs
 - Bridge load rating
 - Bridge inspection
 - Underwater bridge inspections
 - Unknown foundation
 - Scour mitigation

Bridge Replacement/Rehabilitation

2013 Accomplishments

- Replaced five structurally deficient bridges
- Constructed three new bridges
- Replaced three bridge decks
- Widened/extended fourteen structures

Bridge Replacement/Rehabilitation

2018 Program

- Program Value: \$15,200,000
- Program Goals:
 - Ensure safety of the traveling public
 - Allow for programmatic approach to replacing aging and deteriorating structures

Bridge Replacement/Rehabilitation

2018 Program

- SR-102 over West Canal, Replacement
- SR-311 over Strawberry River, Replacement
- SR-113 over Provo River, Rehabilitation
- I-84 EB to I-80 EB, Echo Interchange, Rehabilitation
- SR-39, Ogden Canyon, Replacement
- I-15, 1000 So. to 2100 So., Deck Treatments
- Hole in the Rock Road, Garfield Co., Replacements
- Corinne Canal, Box Elder County, Replacement

Bridge Replacement/Rehabilitation

SR-102 over West Canal, Replacement

- Funding amount: \$310,000
- Scope: Bridge replacement



Bridge Replacement/Rehabilitation

SR-311 over Strawberry River, Replacement

- Funding amount: \$1,300,000
- Scope: Bridge replacement



Bridge Replacement/Rehabilitation

SR-113 over Provo River, Rehabilitation

- Funding amount: \$350,000
- Scope: Substructure rehabilitation



Bridge Replacement/Rehabilitation

I-84 EB to I-80 EB, Echo Interchange, Rehabilitation

- Funding amount: \$3,000,000
- Scope: Deck replacement and rehabilitation



Bridge Replacement/Rehabilitation

SR-39, Ogden Canyon, Replacement

- Funding amount: \$1,860,000
- Scope: Bridge replacement



Bridge Replacement/Rehabilitation

I-15, 1000 So. to 2100 So., Deck Treatments

- Funding amount: \$6,100,000
- Scope: Polyester concrete overlays



Bridge Replacement/Rehabilitation

Hole in the Rock Road, Garfield Co., Replacements

- Funding amount: \$680,000
- Scope: Structure replacement



Bridge Replacement/Rehabilitation

Corinne Canal, Box Elder County, Replacement

- Funding amount: \$410,000
- Scope: Structure replacement



Bridge Preservation

2013 Accomplishments

- Sixty-seven asphalt overlays
- Five thin bonded polymer overlays
- One polyester concrete overlay
- Eighteen healer sealer treatments
- Fourteen parapet treatments
- Two beam replacements
- One scour repair
- Two joint modifications
- Two partial approach slab replacements
- One substructure sealing treatment

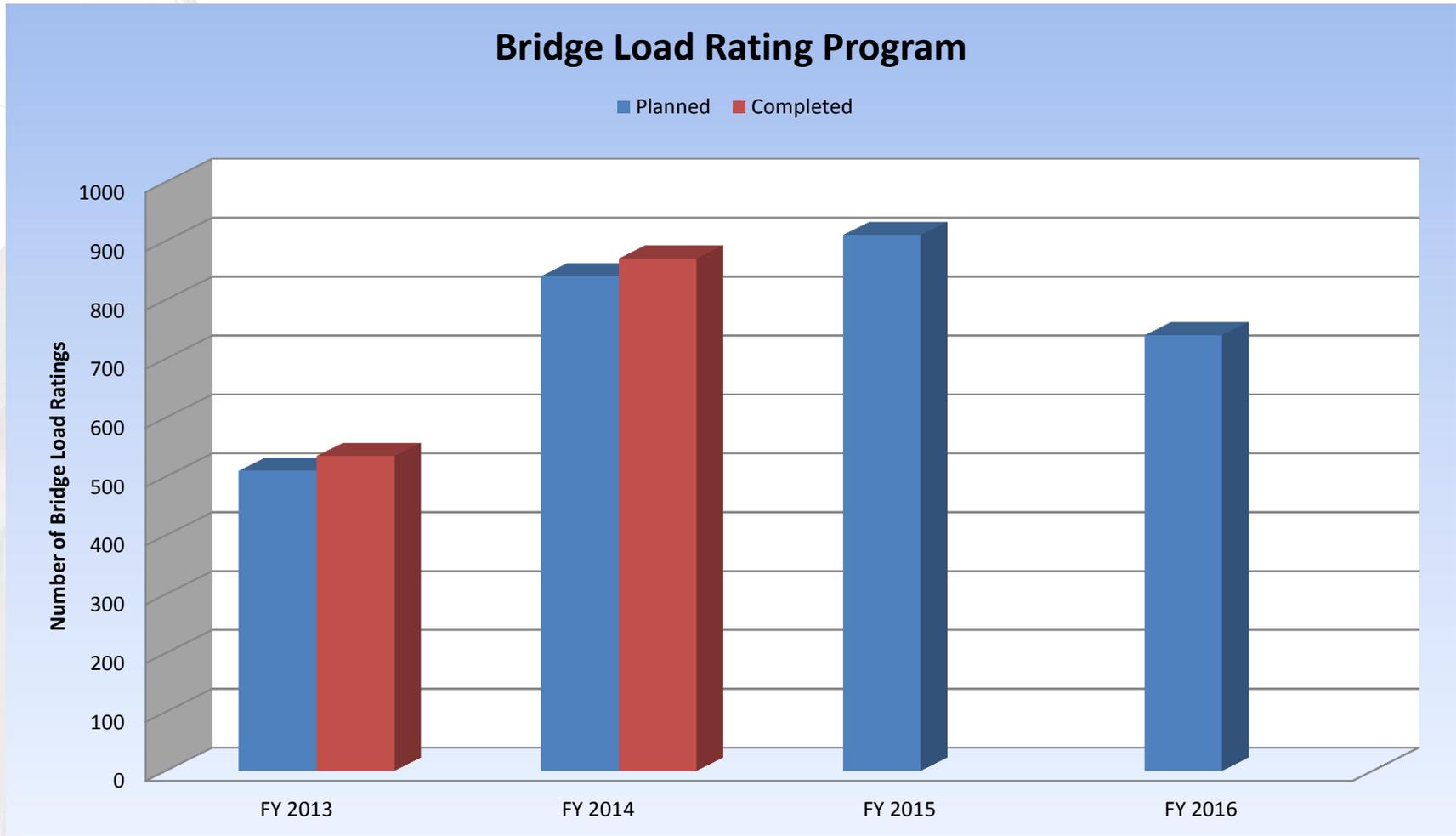
Bridge Preservation

2015 Program

- Program Value: \$3,500,000
- Program Goals:
 - Preserve infrastructure to extend service life
 - Maintain system in state of good repair

Bridge Programs

Bridge Load Rating



Bridge Programs

Bridge Inspection

- Program Value: \$1,200,000 annually
- Program Goals:
 - Ensure safety to the traveling public
 - Provide condition data for planning
 - Begin collection of National Bridge Elements

Bridge Programs

Bridge Underwater Inspection

- Program Value: \$800,000 (fully funded)
- Program Goals:
 - Inspect all foundations that are continuously under water (five-year cycle)
 - Identify potential scour issues

Bridge Programs

Unknown Foundation

	No. Bridges	No. Bridges Complete	No. Bridges Additional Analysis
Phase 1	455	419	36
Phase 2	36	17	19
Phase 3	19	19	--

Bridge Programs

Scour Mitigation

- Completed the established scour mitigation program
- Incorporated addressing scour risk within bridge preservation





Thank you



BRIDGE REPLACEMENT PROGRAM GOAL

Develop a systematic statewide program for the replacement and major rehabilitation of aging and deteriorating structures.

BENEFITS

Ensure safety of the traveling public

Allow for a programmatic approach to replace aging and deteriorating structures

FUNDING

Allocated Funding -	\$15.2 Million
Fiscal Year -	2018

2014 PROGRAM ACCOMPLISHMENTS

Replace six bridges
Perform five rehabilitations

2015 – 2018 PROGRAM

See attached spreadsheet

FY 2014 - 2018 Bridge Replacement/Rehabilitation Projects

LN	Reg	County	Route	Structure Number	Master PIN	PIN	Project Location	Concept	Funded Amount	Fund Type	
	1	Davis	I-15	1D 611 3D 611 1D 615 3D 615 1D 620 3D 620	11170 11170 11170 11170 11170 11170	10944 10944 10944 10944 10944 10944	I-15 over 2600 South Interchange in North Salt Lake I-15 over 500 South Interchange in Bountiful I-15 over 1500 South in Woods Cross	Deck Replacement Deck Replacement Deck Replacement Deck Replacement Deck Replacement Deck Replacement	\$ 7,800,000.00	NHPP_BR	2014
	2	Salt Lake	SR-270	2C 402 2C 400 4C 400 0C 401 4C 402	8753 8753 8753 8753 8753	10891 10891 10891 10891 10891	SR-270; 900 South Connector	Major Rehabilitation Major Rehabilitation Major Rehabilitation Major Rehabilitation Major Rehabilitation	\$ 943,000.00	NHPP_BR	
	2	Summit	I-80	4C 325	8753	10878	I-80; Silver Creek to Wanship	Bridge Replacement	\$ 3,100,000.00	NHPP_BR	
	2	Summit	I-80	0C 433 0C 434	8753 8753	11420 11420	Judd Lane and Hobson Lane over I-80, Near Wanship	Deck Replacement Deck Replacement	\$ 3,595,755.73	BR_On/Off	
	1	Davis	I-15	1D 611 3D 611 1D 615 3D 615 1D 620 3D 620	11170 11170 11170 11170 11170 11170	10944 10944 10944 10944 10944 10944	I-15 over 2600 South Interchange in North Salt Lake I-15 over 500 South Interchange in Bountiful I-15 over 1500 South in Woods Cross	Deck Replacement Deck Replacement Deck Replacement Deck Replacement Deck Replacement Deck Replacement	\$ 11,195,000.00 \$ 1,005,000.00	NHPP_BR ST_Bridge	
	4	Sanpete	Local	039004F	8621	8622	Clarion Road over Sevier River, West of Centerfield	Bridge Replacement	\$ 1,800,000.00	STP_BR	
	2	Salt Lake	SR-186 & I-80	0F 52 3C 423 3F 53 2C 421 0C 422 4C 424 0F 49 0C 562 0C 574 0C 575	8753 8753 8753 8753 8753 8753 8753 8753 8753 8753	10890 10890 10890 10890 10890 10890 10890 10890 10890 10890	I-80; 1700 East to East Canyon	Substructure Repairs, Deck Replacement Repaint Girders, Deck Replacement Substructure Repairs Repaint Girders, Substructure Repairs Repaint Girders, Substructure Repairs, and Widen Bridge Substructure Repairs Membrane and Overlay, Substructure Repairs Repaint Girders Repaint Girders Repaint Girders, Substructure Repairs	\$ 7,950,000.00 \$ 2,450,000.00	NHPP_BR ST_Bridge	2016
	2	Salt Lake	US-89	1D 672	8753	11419	US-89 (Beck Street); Northbound Ramp to I-15	Major Rehabilitation	\$ 800,000.00	NHPP_BR	
	3	Utah	SR-75	0C 454	8755	11475	SR-75 over UPRR, Springville	Deck Replacement and Major Rehabilitation	\$ 1,500,000.00	NHPP_BR	
	1	Box Elder	SR-240	0F 24	8751	11476	SR-240 over I-15, Honeyville Interchange	Bridge Replacement	\$ 4,500,000.00	ST_Bridge	
1	1	Box Elder	SR-102	0D 820	8751	12389	SR-102 over West Canal, South of Thatcher	Bridge Replacement	\$ 310,000.00	ST_Bridge	
2	3	Duchesne	SR-311	0C 72	8755	12390	SR-311 over Strawberry River, North of Duchesne	Bridge Replacement	\$ 1,300,000.00	ST_Bridge	
3	3	Wasatch	SR-113	D 470	8755	12444	SR-113 over Provo River, near Midway	Substructure Rehabilitation	\$ 350,000.00	ST_Bridge	
4	2	Summit	I-84	2C 475	8753	12445	I-84 EB to I-80 EB, Echo Interchange	Deck Replacement and Major Rehabilitation	\$ 3,000,000.00	NHPP_BR	
5	1	Weber	SR-39	0D 634 0F 381 0F 598	8751	12446	SR-39, Ogden Canyon between Ogden and Pineview Reservoir	Bridge Replacement Rehabilitation Rehabilitation	\$ 1,320,000.00 \$ 430,000.00 \$ 65,000.00 \$ 15,000.00	ST_Bridge STP_BR ST_Bridge ST_Bridge	
6	2	Salt Lake	I-15	1F 655 3F 655 1F 636 3F 636 1F 637 3F 637 1F 633 3F 633 1F 630 3F 630	8753	12447	R2; I-15 between 1000 S & 2100 S	Polyester Concrete Overlay	\$ 521,000.00 \$ 561,000.00 \$ 701,000.00 \$ 671,000.00 \$ 671,000.00 \$ 941,000.00 \$ 451,000.00 \$ 471,000.00 \$ 531,000.00 \$ 581,000.00	NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR NHPP_BR	2018
7	4	Garfield	Local	017045V 017054V	8757	12448	R4; County Roads over Alvey and Twenty Mile Washes	Culvert Replacement	\$ 440,000.00 \$ 310,000.00	STP_BR STP_BR	
8	1	Box Elder	Local	003025D	8751	12623	6800 West Street in Box Elder County over Corinne Canal	Bridge Replacement	\$ 410,000.00	STP_BR	

* Items in black are previously approved
* Items in red need Commission approval

BRIDGE PRESERVATION PROGRAM GOAL

Develop a proactive program for preserving structures in a state of good repair. Apply preservation treatments to slow deterioration and extend bridge life.

BENEFITS

Increase structure life

Reduce life cycle costs

Develop a systematic approach to preserving structures with a proactive approach

FUNDING

Allocated Funding -	\$3.5 Million
Fiscal Year -	2015

2014 PROGRAM ACCOMPLISHMENTS

Replace six asphalt overlays
Apply three healer sealer deck treatments
Perform three substructure repairs
Perform one beam repainting

2015-2017 PROGRAM

See attached spreadsheet

FY 2014 - 2017 Bridge Preservation Projects

LN	Reg	County	Route	Structure Number	Master PIN	PIN	Project Location	Concept	Funded Amount	Fund Type	
	2	Salt Lake	SR-68	0F 33	10031	9436	SR-68; North Temple to End of PCCP	Healer/Sealer, Seal Parapet, SubStr Repair	\$ 295,000.00	NHPP_BR	2014
				0F 34				Healer/Sealer, Seal Parapet, SubStr Repair			
				0F 35				Healer/Sealer, Seal Parapet, SubStr Repair			
2	Salt Lake	SR-68	0D 480	8753	9807	SR-68; 2100 S to California Ave	AS Overlay, Membrane, Pothole Patch, Beam Repair	\$ 296,000.00	NHPP_BR		
4	Kane	US-89	0C 337	10032	11539	US-89; Coral Pink Sand Dunes to Jct. SR-9	AS Overlay, Joint Closure, Beam Repainting	\$ 601,000.00	NHPP_BR		
4	Kane	US-89	0C 298	10032	11537	US-89; Arizona Line to Buck Tank Draw	Remove & replace HMA & membrane. 6.5" @ CL & 2" @ curb	\$ 45,000.00	NHPP_BR		
	2	Tooele	I-80	2F 361	10031	10917	I-80; MP 0-10	Pothole patching, waterproofing membrane, and overlay	\$ 350,000.00	ST_Bridge	
				4F 361				Pothole patching, waterproofing membrane, and overlay			
				4C 591				Pothole patching, waterproofing membrane, and overlay			
1	1	Davis	SR-67	1F 703	12137	12370	SR-67; Legacy Parkway	Polymer Overlay & Pothole Patching, Parapet Surface Repair	\$ 1,870,000.00	ST_Bridge	2015
	1	Davis	SR-67	3F 703				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	1	Davis	SR-67	1F 644				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	1	Davis	SR-67	3F 644				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	2	Salt Lake	I-215	3C 857				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	2	Davis	I-215	3F 701				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	2	Salt Lake	I-215	1F 747				Polymer Overlay & Pothole Patching, Parapet Surface Repair			
	1	Davis	Local	0F 718				Polymer Overlay, Parapet Surface & Sidewalk Repair			
	1	Davis	Local	0F 717				Polymer Overlay, Parapet Surface & Sidewalk Repair			
	1	Davis	SR-67	1F 667				Polymer Overlay, Parapet Surface Repair, Concrete Coating			
1	Davis	SR-67	3F 667	Polymer Overlay, Parapet Surface Repair, Concrete Coating							
2	4	Grand	I-70	2D 549	12137	12608	I-70; Cisco to Westwater	Remove & replace Asphalt Overlay/Membrane	\$ 582,000.00	ST_Bridge	
				4F 286				Remove & replace Asphalt Overlay/Membrane			
				2F 186				Remove & replace Asphalt Overlay/Membrane			
				4F 186				Remove & replace Asphalt Overlay/Membrane			
3	4	Grand	SR-279	0V 2059	12137	12371	SR-279; Potash Plant Road, MP 0 - 4.1	Scour Repair - Cutoff wall replacement	\$ 500,000.00	ST_Bridge	
				0V 2058				Scour Repair - Cutoff wall repair			
				0V 1720				Scour Repair - Riprap placement			

FY 2014 - 2017 Bridge Preservation Projects

LN	Reg	County	Route	Structure Number	Master PIN	PIN	Project Location	Concept	Funded Amount	Fund Type
4	3	Uintah	SR-45	0C 745	12138	12609	SR-45; Glen Ranch Rd. to 5800 S. near Vernal	Pothole patching, thin bonded polymer overlay, and joint repair	\$ 415,000.00	ST_Bridge
5	1	Davis	SR-108	0F 582	12138	12415	SR-108; Freeport Center Bridges	Polyester concrete overlay & Pothole Patching	\$ 662,000.00	NHPP_BR
				0F 581				Polyester concrete overlay & Pothole Patching	\$ 510,000.00	NHPP_BR
6	2	Salt Lake	SR-71	0F 693	12138	12417	SR-71; 12300 South over Jordan River	Polymer Overlay & Pothole Patching	\$ 266,000.00	NHPP_BR
	2	Salt Lake	SR-201	2C 919			SR-201 over KCC Haul Road in Magna	Polymer Overlay, Abutment Backwall Repair	\$ 71,000.00	NHPP_BR
	2	Salt Lake	SR-201	4C 919			SR-201 over KCC Haul Road in Magna	Polymer Overlay	\$ 59,000.00	NHPP_BR
	2	Salt Lake	Local	0C 814			Vine Street over I-15	Healer/Sealer & Pothole Patching, Clean & Overcoat Structural Steel	\$ 303,000.00	STP_BR
	2	Salt Lake	SR-151	0F 683			SR-151; 10600 South over Jordan River	Polymer Overlay & Pothole Patching	\$ 457,000.00	NHPP_BR
7	2	Salt Lake	I-80	2C 631	12138	12418	I-80 EB Ramp to North Temple	Asphalt Overlay/Membrane & Pothole Patching, Parapet Surface Repair	\$ 225,000.00	NHPP_BR
8	4	Piute	US-89	0F 590	12138	12420	US-89 over Sevier River, south of Kingston Jct	Polyester concrete overlay, Parapet Surface Repair	\$ 171,000.00	NHPP_BR
9	4	Emery	SR-155	0F 600	12138	12421	SR-155 over Sand Wash in Cleveland	Polyester concrete overlay & Pothole Patching, Parapet Surface Repair	\$ 215,000.00	ST_Bridge
	4	Emery	SR-10	0F 700			SR-10 over Muddy Creek, north of Emery	Polymer Overlay & Pothole Patching, Parapet Surface Repair	\$ 127,000.00	NHPP_BR
10	4	Washington	SR-18	0F 734	12138	12661	Ledges Interchange over SR-18	Polymer Overlay	\$ 77,000.00	ST_Bridge
	4	Beaver	SR-160	0F 732			SR-160 over Beaver River	Polymer Overlay	\$ 46,000.00	ST_Bridge
	4	Millard	US-6	0F 735			US-6 over Sevier River, west of Delta	Polymer Overlay	\$ 79,000.00	NHPP_BR
11	4	Grand	US-191	1F 763 3F 763	12138	12369	US-191 over Colorado River	Thin bonded polymer overlay and concrete repair Thin bonded polymer overlay	\$ 1,053,000.00	NHPP_BR
12	4	Carbon	US-6	0D 808	12138	12611	US-6 Slide area at the top of Price Canyon	Parapet sealing	\$ 78,000.00	NHPP_BR
13	3	Uintah	SR-121	0F 591	12138	12426	SR-121 over Uintah River Overflow Channel	Healer/Sealer, Parapet Surface Repair	\$ 43,000.00	ST_Bridge
	3	Uintah	SR-121	0F 592			SR-121 over Uintah River, west of Lapoint	Healer/Sealer & Pothole Patching, Parapet Surface Repair	\$ 79,000.00	ST_Bridge
14	3	Duchesne	SR-35	0F 650	12138	12438	SR-35 over north fork of Duchesne River	Polyester concrete overlay	\$ 94,000.00	ST_Bridge
	3	Duchesne	US-40	0F 690			US-40 over Antelope Creek, east of Duchesne	Polyester concrete overlay, Parapet Surface Repair	\$ 120,000.00	NHPP_BR
	3	Wasatch	US-40	0F 602			US-40 over Currant Creek	Polyester concrete overlay	\$ 206,000.00	NHPP_BR
15	4	Kane	US-89	0C 204	12138	12439	US-89 over Long Valley Creek, north of Glendale	Paint superstructure	\$ 338,000.00	NHPP_BR
16	4	Emery	SR-29	0D 742	12138	12388	SR-29 north end of Joe's Valley Reservoir	Scour Repair	\$ 100,000.00	ST_Bridge
17	2	Summit	SR-32	0C 288	12138	12440	SR-32 over Weber River upper end of Rockport Res.	Scour Repair	\$ 100,000.00	ST_Bridge
18	2	Summit	SR-150	0C 128	12138	12441	SR-150; Mirror Lake Highway Bear River Crossings	Scour Repair	\$ 280,000.00	ST_Bridge
				0D 269				Scour Repair		
19	2	Tooele	I-80	2C 239	12138	12442	I-80 over Skull Valley Drainage Channel	Paint superstructure	\$ 172,000.00	NHPP_BR
	2	Tooele	I-80	4C 239			I-80 over Skull Valley Drainage Channel	Paint superstructure	\$ 249,000.00	NHPP_BR
20	4	San Juan	US-191	0F-594	12139	12612	US-191; Kane Springs Wash	Polyester concrete overlay & Pothole Patching, Parapet Surface Repair	\$ 307,000.00	NHPP_BR
21	2	Salt Lake	I-15	1F-661	12139	12443	R2 I-15 Polyester	Polyester Concrete Overlay	\$ 580,000.00	NHPP_BR
				3F-661					\$ 580,000.00	NHPP_BR
				1F-662					\$ 365,000.00	NHPP_BR
				3F-662					\$ 372,000.00	NHPP_BR
				1C-880					\$ 1,397,000.00	NHPP_BR
				3C-880					\$ 1,077,000.00	NHPP_BR
22	1	Davis	SR-68	3C 330	12138	12416	SR-68 over SR-89, Old Banberger Railroad Overpass	Paint superstructure, pothole patch, membrane, and overlay	\$ 654,000.00	NHPP_BR
23	4	Wayne	SR-24	0C 656	12139	12603	Dirty Devil River Bridge, north of Hanksville	Scour Repair	\$ 250,000.00	ST_Bridge
24	4	San Juan	US-191	0C 292	12139	12606	Hatch Wash Bridge on US-191	Scour Repair	\$ 250,000.00	ST_Bridge
25	3	Uintah	US-191	0F 721	12139	12660	US-191 over Ashley Creek, north of Vernal	Polymer Overlay, Parapet Surface Repair	\$ 98,000.00	ST_Bridge
26	Various	Various	Various	Various	12139		Load Rating Mitigation Program	Mitigate for required load postings	\$ 685,000.00	STP_BR
27	Various	Various	Various	Various	12139		Load Rating Mitigation Program	Mitigate for required load postings	\$ 1,290,000.00	ST_Bridge

2016

2017

BRIDGE LOAD RATING (LR) PROGRAM GOAL

Develop a Bridge Load Rating Program and allocate funding to complete all Bridge Load Ratings within four years. All bridges require a Load Rating per 23 CFR Section 650.

BENEFITS

- Ensure safety of the traveling public
- Provide accurate data to support and allocate funds toward a system wide bridge preservation, rehabilitation, and replacement program
- Allow for a programmatic permit truck routing system
- To more effectively evaluate the trucking industry requests for allowance of higher truck loads (permits)

FUNDING

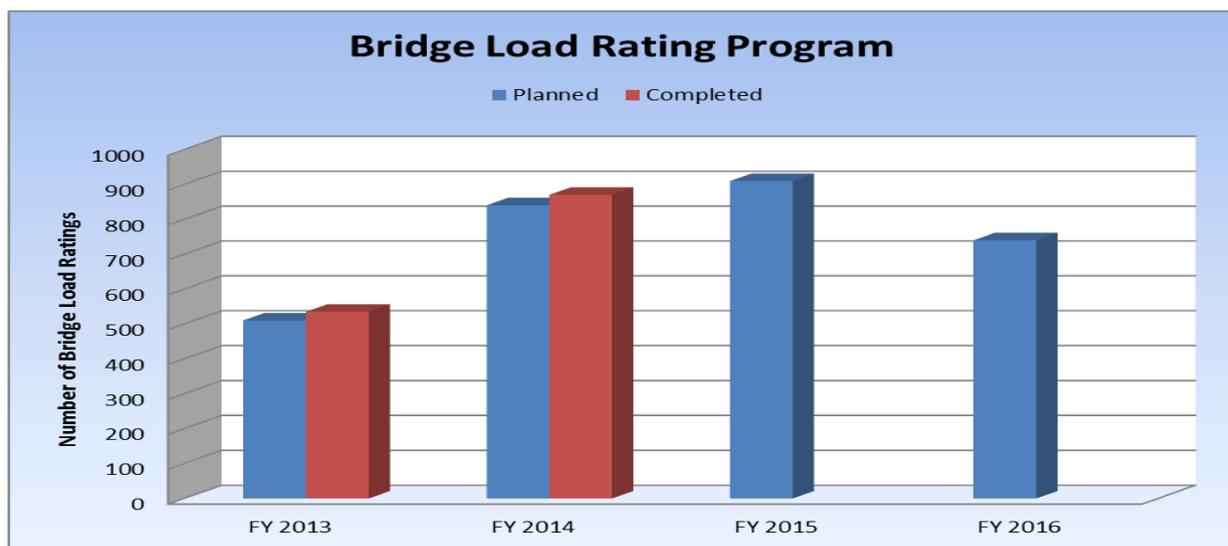
Allocated Funding - Funding Complete
Completion Timeline - 2016

ACCOMPLISHMENTS

- Acquired consultant program manager services
- Obtained consultant bridge load rating design services (four consultant firms)
- Developed a plan to complete the entire inventory of bridge load ratings in four years
- Created a bridge load rating policy and analysis procedures
- Completed 1405 bridge load ratings

PERFORMANCE REPORT

Track completed load ratings and compare to the planned schedule



BRIDGE INSPECTION PROGRAM GOAL

Develop a comprehensive Bridge Inspection Program and allocate funding to meet the requirements of 23 CFR Section 650. Current resources and funding are inadequate to meet Federal inventory inspection obligations.

BENEFITS

Ensure safety of the traveling public

Provide accurate data to support and allocate funds toward a system wide bridge preservation, rehabilitation, and replacement program

To consistently and responsibly monitor, investigate, and take action to provide a safe state-wide bridge system

FUNDING (4 YEAR PROGRAM)

Allocated Funding -	\$1.2 Million
Fiscal Year -	2018

ACCOMPLISHMENTS

Obtained consultant bridge inspection services (three consultant firms)

Developed a plan to effectively manage bridge inspections to meet Federal obligations

Completed 1514 bridge inspections in 2013

PERFORMANCE REPORT

Compliant on 20 of the NBI 23 Metrics and conditionally compliant on the remaining 3
Plan of Corrective Action is in place for each conditionally compliant metric

BRIDGE UNDERWATER INSPECTION

Allocate funding to meet the requirements of 23 CFR Section 650 for underwater bridge inspections. Current resources and funding are inadequate to complete the federal underwater bridge inspection requirements.

BENEFITS

Ensure safety of the traveling public

Identify potential scour issues to identify projects in a proactive manner

FUNDING

Allocated Funding -	\$800,000
Completion Timeline -	2014

ACCOMPLISHMENTS

Adjusted inspection schedule to perform inspections during times of low flow or restricted flow
Reduced number of bridges needing underwater inspection from 77 to 55 through optimization of schedule



BRIDGE UNKNOWN FOUNDATION PROGRAM GOAL

Develop a Bridge Unknown Foundation Program and allocate funding to address bridges with unknown foundations as required by the Federal Highway Administration Memorandum for Technical Guidance for Bridges over Waterways with Unknown Foundations dated January 9, 2008 which states November 2010 as the target date for eliminating the number of bridges with unknown foundations from a state's inventory.

BENEFITS

To understand the current level of risk associated with the state inventory of bridges
To develop a mitigation plan for identified risks

ACCOMPLISHMENTS

Obtained consultant hydraulic design services (one firm) to evaluate and create Plan of Action reports for bridges with unknown foundations

Completed analysis of remaining bridges in Phase 3

FUNDING

Allocated Funding - Funding Complete
Completion Timeline - June 2014

PERFORMANCE REPORT

Phase 1, Phase 2, and Phase 3 were completed as planned and within the allocated budget.

	No. Bridges	No. Bridges Complete	No. Bridges Additional Analysis
Phase 1	455	419	36
Phase 2	36	17	19
Phase 3	19	19	--

Based on the initial 455 bridges analyzed, 36 bridges required additional analysis to finalize Plan of Action reports. All 36 bridges needing additional analysis have been completed. Roll out of the final plans of action to all local owners is in progress. The program is fully funded.

BRIDGE SCOUR PROGRAM GOAL

To develop a Bridge Scour Program and allocate funding for projects to address bridges that are scour critical.

BENEFITS

Allocate funds to projects to identify and remedy scour hazards to minimize the risk associated with bridge failures due to scour

To reduce future maintenance costs associated with scour

FUNDING

Allocated Funding -
Completion Timeline -

Funding Complete
2013

ACCOMPLISHMENTS

Completed the established scour mitigation program
Incorporated addressing scour risk within bridge preservation program