

City of Indio

Federal Fiscal Year 2017/2018 Bridge Preventive Maintenance Program

PM00188

Priority (Lowest Number Is Top Priority)	Agency Location	Bridge Number from Inspection Report	Facility Carried	Feature Intersected	Location	Sufficiency Rating	SD/FO Status	Work Description	Deck Area (ft ²)	Unit Cost (\$/ft ²)	Federal Share	Local Share	Total Particip. Cost
1	City of Indio	56C0084	Jackson Street	Whitewater River	0.2 MI S/O Rte I-10 FW	89.7		1. Remove and reconstruct severely cracked/spalled portion of the concrete deck near the northerly Abutment. 2. Seal the entire deck with high molecular weight methacrylate and place a polyester concrete overlay. 3. Construct expansion dams on the top of both abutment backwalls and resurface minor approach as a deck overlay transition at both abutments. 4. Correct the abutment slope erosion at the southwest corner of the bridge. 5. Replace the deteriorated compression joint seal at both abutments. 6. Place minor scour countermeasure around Pier 2 to control localized scour. 7. Repair the broken AC dike near the northeast wingwall to control the abutment slope erosion.	25,958	29	\$ 663,511.99	\$ 85,965.01	\$ 749,477.00
2	City of Indio	56C0547	Autogolf Center Drive (now named as Golf Center Drive)	Indio Blvd/UPPR	0.75 MI SW/O I-10 FW	95.3		1. Seal the entire deck with high molecular weight methacrylate. 2. Replace the deteriorated joint seals at all expansion joints. 3. Removing the existing eroded partial-height abutment slope paving and construct a full new slope paving that extends to the toe of the abutment slope at both abutments. 4. Excavate to the top of the footing of all columns that exhibit vertical cracks, and epoxy inject the cracks.	41,902	12	\$ 435,968.64	\$ 56,484.36	\$492,453
3	City of Indio	56C0283	Indio Blvd S/B	UPPR/Amtrak	0.3 MI W/O Jefferson St	47.6	SD	1. Install expansion dams and replace the compression joint seals at both abutments to correct the front slope erosion. 2. Construct AC dikes at the approaches adjacent to the abutments to correct the side slope erosion. 3. Backfill the eroded abutment slopes. 4. Replace the deteriorated/cracked concrete railings.	11,576	53	\$ 542,378.16	\$ 70,270.84	\$612,649
4	City of Indio	56C0083	Monroe Street	Whitewater River	0.1 MI S/O Rte I-10 FW	93.1		1. Seal the entire deck with high molecular weight methacrylate and place 1" thick polyester concrete overlay. 2. Install an expansion dam and replace the compression joint seal at both abutments. 3. Resurface minor approach as a deck overlay transition at both abutments. 4. Remove and reconstruct the damaged northwest shear key.	22,967	25	\$ 500,684.96	\$ 64,869.04	\$ 565,554.00
5	City of Indio	56C0392	Monroe Street	Indio Blvd/UPPR	At Indio Blvd	80.7		1. Seal the entire deck with high molecular weight methacrylate and place a polyester concrete overlay. 2. Replace the deteriorated compression joint seals at both abutments. 3. Reconstruct the three damaged interior shear keys and the end diaphragms at the abutments. 5. Replace the existing deteriorated/cracked approach slab with a new approach slab at both abutments.	27,612	37	\$ 896,692.93	\$ 116,176.07	\$1,012,869
6	City of Indio	56C0168	Fred Waring Drive	Coachella Canal	0.2 MI W/O Madison St	92.6		1. Seal the entire deck with high molecular weight methacrylate. 2. Remove and reconstruct the spalled top portion of the abutment backwalls. 3. Replace the deteriorated pourable joint seal at both abutments.	5,202	19	\$ 88,910.68	\$ 11,519.32	\$ 100,430.00

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7	City of Indio	56C0546	Autogolf Center Drive (now named as Golf Center Drive)	Whitewater River	0.15 MI SW/O I-10 FW	93.1	SD	1. Seal the entire deck with high molecular weight methacrylate and place a polyester concrete overlay. The associated deck treatment requires removing and replacing the existing small broken AC median divider with a similar-size concrete raised median. 2. Install an expansion dam and replace the deteriorated compression joint seal at both abutments. 3. Resurface minor approach as a deck overlay transition at both abutments. 4. Excavate to the top of the footing of all columns that exhibit vertical cracks and epoxy inject the cracks. 5. Chip off the spalled concrete at Bent 3 and repair the spall with rapid setting concrete.	50,096	38	\$ 1,690,743.28	\$ 219,053.72	\$1,909,797
8	City of Indio	56C0246	Monroe Street	Coachella Canal	50' N/O 40th Avenue	45.8		1. Removing the existing deteriorated AC overlay, seal the entire bridge deck with high molecular weight methacrylate, and place a polyester concrete overlay. 2. Install an expansion dam and replace the deteriorated compression joint seal at both abutments. 3. Replace the deteriorated and rusted metal railings with Type 736 concrete barriers.	1,538	108	\$ 147,265.23	\$ 19,079.77	\$166,345
9	City of Indio	56C0128	49th Avenue	Coachella Canal	50' W/O Hjorth St	97.9		1. Remove the existing cracked AC overlay, seal the entire bridge deck with high molecular weight methacrylate and place a polyester concrete overlay to protect corrosion from the transverse post-tensioning steel. 2. Reconstruct the existing broken expansion dams and replace the deteriorated compression joint seals at both abutments.	2,376	69	\$ 144,169.33	\$ 18,678.67	\$ 162,848.00
10	City of Indio	56C0545	Highway 111 (47th Avenue)	La Quinta Channel	0.1 MI E/O Jefferson St	76.1		1. Seal the entire bridge deck with high molecular weight methacrylate.	16,521	4	\$ 65,353.73	\$ 8,467.27	\$73,821
11	City of Indio	56C0282	Indio Blvd N/B	UPRR/Amtrak	0.3 MI W/O Jefferson St	92.8		1. Removing the existing deteriorated AC overlay, seal the entire bridge deck with high molecular weight methacrylate, and place a polyester concrete overlay. 2. Epoxy-coat the exposed rebars at the girder soffit and patch the spalls with rapid setting concrete.	6,140	57	\$ 312,215.21	\$ 40,450.79	\$352,666
12	City of Indio	56C0184	Avenue 42	Coachella Canal	0.12 MI W/O Madison St	72.7		1. Patch the spalls at the edges of the deck with rapid setting concrete. 2. Seal the entire bridge deck with high molecular weight methacrylate.	1,938	12	\$ 20,184.84	\$ 2,615.16	\$22,800
13	City of Indio	56C0292	Indio Blvd W/B	Whitewater River	0.8 MI NW/O Monroe St	75.1		1. Seal the entire deck with high molecular weight methacrylate and place a polyester concrete overlay. 3. Resurface minor approach as a deck overlay transition at both abutments.	16,067	21	\$ 305,552.44	\$ 39,587.56	\$345,140
14	City of Indio	56C0291	Jackson Street	UPRR/Indio Blvd	At Indio Blvd	41.9	SD	1. Remove the top portion of the abutment backwall and reconstruct the existing displaced and deteriorated approach slab with a new approach slab at both abutments. 2. Clean all expansion joints and replace all joint seals.	44,112	12	472146.4254	\$ 61,171.57	\$533,318
15	City of Indio	56C0516	Fred Waring Drive	Whitewater River	0.5 MI E/O Jefferson St	95.4		1. Replace the deteriorated compression joint seals at both abutments and the hinge. 2. Grind the bridge deck, and remove and reconstruct the blockout of the joint seal assembly at the north and south end of the hinge to correct the vertical offset at the hinge with polyester concrete (exterior bearings have been replaced in 2005).	61,560	3	\$ 156,503.33	\$ 20,276.67	\$176,780

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16	City of Indio	56C0253	Avenue 46	Coachella Canal	0.1 MI E/O Madison St	72.6		1. Replace the deteriorated pourable joint seals at both abutments. 2. Construct an expansion dam on the top of the abutment backwall and resurface minor approach as a deck overlay transition at both abutments.	2,002	17	\$ 29,849.66	\$ 3,867.34	\$33,717
17	City of Indio	56C0149	Miles Avenue	Coachella Canal	50' E/O Madison St	95.8		1. Replace the deteriorated pourable joint seals at both abutments. 2. Epoxy-inject the longitudinal crack along the joint of the curved cast-in-place and precast concrete slab at the southwest corner of the bridge.	3,372	8	\$ 23,141.74	\$ 2,998.26	\$ 26,140.00
18	City of Indio	56C0318	Dillon Road	Whitewater River	0.12 MI SE/O SR-86S	80.1		1. Epoxy inject the vertical cracks at the bottom of Column 1 at Bent 3 and Bent 4. 2. Replace the deteriorated metal railings with concrete barriers and metal handrailings.	10,215	27	\$ 244,871.32	\$ 31,725.68	\$276,597
19	City of Indio	56C0198	Jefferson Street	La Quinta Channel	200' S/O RTE 111	76.9	FO	1. Remove a 3-foot wide strip from the AC overlay above both closure pour joints and replace with a polyester concrete overlay to protect the rusted joint dowels from water seepage.	22,772	3	\$ 67,665.25	\$ 8,766.75	\$76,432
Project Prioritization											Grand Total = \$ 6,807,809 \$ 882,024 \$ 7,689,833		
Local Agencies must develop objective procedures to prioritize their preventive maintenance projects. These procedures must be included in the project files for review in future audits. High priority projects should include the repair of scour countermeasure, embankment erosion control and the repair, restoration, and strengthening of structural elements.											Cost Breakdown		
Priority should be given to bridges that are not eligible for rehabilitation or replacement under the Federal Highway Bridge Program. The intent of the program is to keep these bridges in structurally good condition to maximize their service life and to conserve limited funds available for bridges that do require major rehabilitation or replacement. (Bridges eligible for rehabilitation or replacement are rated SD or FO and have a sufficiency rating of 80 or less.)											Subtotal Construction Cost = \$ 4,098,692		
Deadlines:											Mobilization (10% of Subtotal Construction Cost) = \$ 455,418		
Local agency transmits the BPMP with cover letter certifying compliance with these program guidelines. The electronic copy (any spreadsheet format) should be included with the paper transmittal letter. The DLAE's must receive the BPMPs by September 30th for funds to be obligated in the next FFY year, and January 30th of each year for adjustments. No time extensions will be granted.											Total Construction Cost = \$ 4,554,110		
Accountability:											Contingency (25% of Total Construction Cost) = \$ 1,141,577		
Local Agencies are responsible for understanding and complying with the program requirements defined in the "Bridge Preventive Maintenance Program Guidelines For Local Agencies."											PE (25% of Total Construction Cost) = \$ 1,138,531		
											R/W (TCE, RR C&M Agreement, RR Flagging) = \$ 172,500		
											CE (15% of Total Construction Cost) = \$ 683,117		
											CON (Total Construction Cost + Contingency + CE) = \$ 6,378,804		
											Total Participating Cost = \$ 7,689,835		