

APPLICANT: Napa County

DATE COMPLETED: October 16, 2014

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IS THIS AN AMENDED LIST OF PROJECTS? No

ITEM #	LOCATION	DESCRIPTION OF DAMAGE AND SCOPE OF WORK	REVISED COST ESTIMATE	CATEGORY*	WAS WORK COMPLETED BY FORCE ACCT. (FA), CONTRACT (C) OR BOTH (F/C)?	ENTER "ENV" IF THERE ARE ENVIRONMENTAL ISSUES OR "HIST" FOR HISTORIC ISSUES, OR BOTH	WAS THERE INSURANCE COVERAGE? IF YES, ENTER DEDUCTIBLE AMOUNT	WAS THE FACILITY DAMAGED IN A PRIOR DISASTER(S)? IF YES, ENTER DISASTER NAME(S) OR NUMBER(S)	ARE THERE COST EFFECTIVE HAZARD MITIGATION MEASURES THAT MAY PREVENT FUTURE DAMAGE?
1	Multiple bridges and culverts throughout Napa County.	Damage Assessment bridge and culvert structures for post-earthquake damage.	\$ _____	C		ENV, HIST	\$	No	Yes
2	Garnett Creek Bridge on Greenwood Ave, Calistoga, Napa County (District 3), CA - BRIDGE	Existing earth-filled arch bridge split severely during the 2014 South Napa Earthquake. Recommendations are to replace the existing damaged structure.	\$4,942,704.00	C		ENV, HIST	\$	No	Yes
3	Partrick Road Bridge (MPM 00.88), Napa, Napa County (District 1), CA - BRIDGE	Buckling of stone wingwalls due to recent earthquake. Failure of metal beam guard rail on south-east corner of bridge due to buckling of stone wingwalls after recent earthquake. Cracks on asphalt roadway due to settlement by recent earthquake. Recommendations are to repair stone wingwalls buckling out of plane. Repair/seal cracks on AC roadway. Replace leaning metal beam guard rail. Install temporary Bailey Bridge. Replace bridge	\$3,197,000.00	C		ENV	\$	No	Yes
4	Mt Veeder Road (125' N of Redwood Rd / MPM 00.00 Napa County (District 1), CA - BRIDGE	Cracks on concrete walls and damaged wingwalls due to recent earthquake. Recommendations are to fill in cracks and replace missing stones on stone wingwalls. Fill in cracks on concrete walls. Temporary K-Rails should be placed along both sides roadway due to concerns about compromised railing installed in wingwalls. Install barrier slab and barriers.	\$78,200.00	C		ENV	\$	No	Yes
5	Mt Veeder Road (400' N of MPM 00.00) Napa County (District 1), CA - BRIDGE	Cracks on concrete walls and damage to wingwalls due to recent earthquake. Recommendations are to fill in cracks and replace missing stones on stone wingwalls. Fill in cracks on concrete walls. Temporary K-Rails should be placed along both sides roadway due to concerns about compromised railing installed in wingwalls. Install barrier slab and barriers.	\$90,950.00	C		ENV	\$	No	Yes
6	Mt Veeder Road (MPM 02.13) Napa County (District 1), CA - BRIDGE	Missing mortar and stones on stone arch and cracks on asphalt roadway due to recent earthquake. Recommendations -This bridge should be closed, temporary shored, or temporarily spanned with a Bailey Bridge. Emergency protective measures - Fill in cracks and replace missing stones on stone wingwalls for erosion control purposes. Shore or install a Bailey bridge until permanent replacement structure can be designed and constructed.	\$1,227,900.00	C		ENV	\$	No	Yes
7	Buhman Avenue at Congress Valley Rd Napa County (District 1), CA - BRIDGE	Missing mortar and stones on stone arch and large crack/gap between wingwall/headwall and stone arch due to recent earthquake. Cracks on asphalt roadway due to settlement caused by recent earthquake. Recommendations are to fill in cracks and replace missing stones on stone wingwalls. Fill in cracks and replace missing stones on stone arch. Replace wingwall and headwall and bridge. Repair cracks in AC roadway.	\$1,466,000.00	C		ENV	\$	No	Yes

8	Redwood Road (0.6 Mi N of MPM 0.400) Napa County (District 1), CA - BRIDGE	Missing mortar and stones on stone arch. Separation between wingwalls/headwalls and rectangular concrete box. Recommendations are to fill in cracks and replace missing stones and stone arch. Replace existing damaged and separated wingwalls/headwalls. Construct concrete slab across entire with of deck to tie walls together.	\$194,000.00	C		ENV	\$	No	Yes
9	Neushwander Road (150' W of End Sign) Napa County (District 1), CA - BRIDGE	Cracks in mortar and missing stones on stone wingwalls. Missing wingwalls leading to settlement. Recommendations are to fill in cracks and replace missing stones on stone wingwalls. Replace missing wingwalls.	\$160,700.00	C		ENV	\$	No	Yes
10	Las Amigas Road (200' W of Buchi Station) Napa County (District 1), CA - BRIDGE	Cracks on asphalt roadway due to settlement. Recommendations are to repair cracks in AC roadway due to settlement.	\$9,800.00	C			\$	No	Yes
11	Kirkland Ranch Road (S Side of Polson Rd) Napa County (District 1), CA - BRIDGE	Cracks on mortar of wingwalls and headwalls. Crack on stone w/mortar arch. Recommendations are to fill in cracks on stone wingwalls and headwalls. Fill in crack on stone w/mortar arch.	\$29,200.00	C		ENV	\$	No	Yes
12	Coombsville Road (At Wild Horse Valley) Napa County (District 1), CA - BRIDGE	The stone w/mortar barriers are cracked and displaced. Recommendations are to replace existing damaged barrier.	\$21,000.00	C			\$	No	Yes
13	Third Avenue (357' N of Coombsville Old MPM 00.06 at Bridge) Napa County (District 1), CA - BRIDGE	Cracks in mortar for wingwalls due to recent earthquake. Recommendations are to fill in cracks on stone wingwalls.	\$21,500.00	C		ENV	\$	No	Yes
14	Third Avenue (300' N of MPM 01.75) Napa County (District 1), CA - BRIDGE	Crack along entire length of south headwall due to recent earthquake. Recommendations are to replace cracked barrier/headwall/wingwall along south side of structure.	\$394,000.00	C		ENV	\$	No	Yes
15	Hagan Road (MPM 00.00 At City Limit) Napa County (District 1), CA - BRIDGE	Crack along entire length of east headwall due to recent earthquake. Recommendations are to pressure grout cracks in barrier.	\$21,500.00	C		ENV	\$	No	Yes
16	Soda Canyon (0.1 M W From Soda Springs Rd) Napa County (District 2), CA - BRIDGE	Cracks and spalling on asphalt deck due to recent earthquake. Recommendations are to fill in cracks and spalls on AC deck.	\$16,100.00	C			\$	No	Yes
17	Atlas Peak (MPM 06.94) Napa County (District 2), CA - BRIDGE	Cracks and spalling on asphalt deck due to recent earthquake. Recommendations are to fill in cracks and spalls on AC deck.	\$11,500.00	C			\$	No	Yes
18	Washington St North (100' N of Yountville Town Sign) Napa County (District 2), CA - BRIDGE	Missing stones are mortar on stone rectangular box and cracks and spalls in asphalt deck due to recent earthquake. Recommendations are to replace missing stones and fill in cracks on stone rectangular box. Fill in cracks and spalls on AC deck.	\$36,800.00	C		ENV	\$	No	Yes
19	Silverado Trial (at Taplin Road) Napa County (District 3), CA - BRIDGE	Cracks and missing stones on stone barrier at north side of structure due to recent earthquake. Recommendations are to pressure grout cracks in existing stone barriers.	\$21,300.00	C			\$	No	Yes
20	Silverado Trial (MPM 26.50) Napa County (District 3), CA - BRIDGE	Cracks and missing stones on stone barriers due to recent earthquake. Recommendations are to pressure grout cracks in existing stone barriers.	\$19,600.00	C			\$	No	Yes
21	Bennett Lane (MPM 00.39) Napa County (District 3), CA - BRIDGE	Vertical crack on north-east wingwall due to recent earthquake. Recommendations are to fill in crack on north-east wingwall. Pressure grout cracks in existing stone barriers.	\$28,800.00	C		ENV	\$	No	Yes
22	Whitehall Lane (.7 M E of MM 00.50) Napa County (District 3), CA - BRIDGE	Cracks and missing stones on stone barriers due to recent earthquake. Recommendations are to pressure grout cracks in existing stone barriers.	\$21,300.00	C			\$	No	Yes
23	Whitehall Lane (.8 M E of MM 01.00) Napa County (District 3), CA - BRIDGE	Cracks and missing stones on stone barriers and cracks in stone wingwall and stone arch due to recent earthquake. Recommendations are to replace stone barriers. Fill in cracks on stone wingwalls and stone arch.	\$77,500.00	C		ENV	\$	No	Yes
24	Cuttings Wharf Road (MP 1.7) Napa County (District 1), CA - CULVERT	Possible seismic damage to headwall at culvert inlet. Recommendations are to replace headwall.	\$33,000.00	C		ENV	\$	No	Yes
25	Duhig Road (MP 1.9) Napa County (District 1), CA - CULVERT	Cracks in AC pavement and differential settlement due to recent earthquake. Recommendations are to repair AC pavement.	\$10,400.00	C			\$	No	Yes
26	First Avenue (2267) Napa County (District 1), CA - CULVERT	Cracks in outlet headwall due to recent earthquake. Recommend repairing cracks in headwall.	\$21,300.00	C		ENV	\$	No	Yes

27	Henry Road (MP 2.6) Napa County (District 1), CA - CULVERT	There is some joint separation at the tounge-and-groove joint between the RCP segments. Delamination observed between the stones in the headwall. Recommendations are to repair the separation in the joints and repair the headwall.	\$25,000.00	C		ENV	\$	No	Yes	
28	La Grande Ave (1002) Napa County (District 1), CA - CULVERT	Cracks were observed in culvert barrel, wingwalls, and the AC pavement on the roadway. Recommendations are to repair all cracks.	\$26,500.00	C		ENV	\$	No	Yes	
29	Milton Rd (2 culverts at this flood gate, MP 1.7) Napa County (District 1), CA - CULVERT	Cracks observed in pavement above culvert possibly due to differential settlement. Possible damage to flood gate. Recommendations are to repair cracks in AC pavement. A video inspection/diver is needed to verify the extent of damage to flood gate. Repair culvert and replace flood gate.	\$330,900.00	C		ENV	\$	No	Yes	
30	Milton Rd (pumphouse, MP 0.35) Napa County (District 1), CA - CULVERT	Cracks observed in pavement above culvert possibly due to differential settlement. Recommendations are to repair cracks in AC pavement.	\$20,700.00	C			\$	No	Yes	
31	Old Sonoma Road (02.27) Napa County (District 1), CA - CULVERT	Extensive cracking was found along entire perimeter of stone arch. Recommendations are to replace the culvert.	\$395,000.00	C		ENV	\$	No	Yes	
32	Old Sonoma Road (0.75) Napa County (District 1), CA - CULVERT	Small vertical crack in headwall and cracks in pavement due to recent earthquake. Recommendations are to repair all cracks in the roadway and repair the crack in the headwall by epoxy injection.	\$57,600.00	C			\$	No	Yes	
33	Partrick Road (1286 200') Napa County (District 1), CA - CULVERT	Vertical crack in wingwall and settlement and additional diagonal cracks at the culvert outlet due to recent earthquake. Recommendations are to repair all cracks, replace headwall/wingwall, and replace portions of culvert near outlet/inlet.	\$866,000.00	C		ENV	\$	No	Yes	
34	Thompson Rd (MP 0.1) Napa County (District 1), CA - CULVERT	Joint separation at the tounge-and-groove joint between RCP segments due to recent earthquake. Recommend to repair joints.	\$18,400.00	C		ENV	\$	No	Yes	
35	McKinley Rd (MP00.40, S Side of 1681) Napa County (District 2), CA - CULVERT	Stone & mortar headwall has partially collapsed due to recent earthquake. Recommend to repair damaged portion of existing stone headwall.	\$21,700.00	C		ENV	\$	No	Yes	
36	Silverado Trail (MP 0.16) Napa County (District 2), CA - CULVERT	Vertical cracks located at ends of culvert headwall and transverse cracking in AC roadway along culvert barrel due to recent earthquake. Recommend repairing cracks in headwall. Recommend repairing cracks in AC roadway.	\$48,000.00	C		ENV	\$	No	Yes	
37	Silverado Trail (MP 1.47) Napa County (District 2), CA - CULVERT	Cracks in concrete culvert walls and wingwalls due to recent earthquake. Recommend repairing cracks in concrete.	\$21,150.00	C		ENV	\$	No	Yes	
38	Silverado Trail (122'N of 7764, MP 10.64 flat) Napa County (District 2), CA - CULVERT	Cracks in concrete wingwalls due to recent earthquake. Recommend repairing cracks in concrete.	\$19,600.00	C		ENV	\$	No	Yes	
39	Skellenger Ln (MP 01.33, 250' E of 1595) Napa County (District 2), CA - CULVERT	Cracks in concrete wingwalls and transverse cracks and spalling of AC roadway due to recent earthquake. Recommend repairing cracks in concrete and repairing/replacing AC roadway.	\$111,600.00	C		ENV	\$	No	Yes	
40	Manley Ln (Manley Ln 264' E of 1400, 455' W, MP 0.25) Napa County (District 2), CA - CULVERT	Severe horizontal cracks running across entire length of the south wall and southwest wingwall due to recent earthquake. Bottom portion of wall is protruding into waterway. Recommend to replace culvert.	\$214,000.00	C		ENV	\$	No	Yes	
41	Drainage Channel at 3281 Solano Ave - DRAINAGE CHANNEL	Damaged retaining wall. Recommend to rebuild retaining wall	\$25,000.00	C		ENV	\$	No	Yes	
42	21C0116 YOUNTVILLE CROSS ROAD Bridge, 0.9 MI SW SILVERADO TRAIL - BRIDGE	Cracks in external shear keys and approach AC settlement. Recommend remove and replace shear key	\$326,250.00	C		ENV	\$	No	Yes	
43	21C0087 Conn Creek bridge SKELLENGER LANE 0.7 MI W SILVERADO TRAIL - BRIDGE	Cracking in abutment wingwall. Recommend replace wingwall	\$163,125.00	C		ENV	\$	No	Yes	
44	Vichy Ave Bridge at La Grange Ave - BRIDGE	Minor crack in headwall. Major crack and spalling in concrete barrier, crack in pavement. Recommend epoxy injection for headwall cracks, replace concrete barrier, repair pavement crack.	\$30,000.00	C		ENV	\$	No	Yes	

TOTAL

\$14,872,579.00

*CATEGORY: A) Debris Clearance; B) Protective Measures; C) Road System; D) Water Control Facility; E) Buildings and Equipment;
F) Public Utility System; G) Other. (Note: if a single site has more than one category, indicate the category that represents the majority of damage.)