If you are reading this document as a printed copy, a compact disc of the Volume II and Volume III appendices is included inside the back cover.
Decision

The Federal Highway Administration (FHWA) has decided to identify the Preferred Alternative analyzed in the South Mountain Freeway (Loop 202) Final Environmental Impact Statement and Section 4(f) Evaluation (FEIS) as the Selected Alternative for the South Mountain Freeway project in Maricopa County, Arizona. The Selected Alternative (a combination of the W59 and E1 Alternatives), shown in Figures 15 and 16, discussed in this record of decision (ROD) is the environmentally preferable alternative. The Selected Alternative will meet the project needs as well as or better than the other alternatives. The Section 4(f) evaluation demonstrated that no feasible and prudent avoidance alternatives to use of the South Mountains’ Section 4(f) resources are available. Direct use of the resource is the same regardless of the combination of action alternatives in the Western and Eastern Sections (representing a range of reasonable alternatives). Relative to other action alternatives considered, the Selected Alternative will have similar environmental effects on natural resources, cultural resources, hazardous materials, and noise; will displace fewer residences; will have the lowest impact on total tax revenues of local governments; will have lower construction costs; will cause less construction disruption overall to Interstate 10; will include measures to reduce impacts and minimize harm; represents all possible planning to minimize harm to resources afforded protection under Section 4(f); is favored by the majority of local governments; and will allow regulatory permitting requirements to be met.

This decision is based on an evaluation of information presented in the FEIS and errata, the project’s purpose and need, input from the public, and interagency and tribal coordination. Approximately 250 comments were received on the FEIS and errata during the review period. The Notice of Availability of the FEIS and errata appeared in the Federal Register on September 26, 2014, and December 5, 2014, respectively. The public comments and FHWA and Arizona Department of Transportation responses to public comments are included in this ROD. Additional rationale for the decision to proceed with the Selected Alternative are presented in this ROD.

Karla S. Petty
Arizona Division Administrator
Federal Highway Administration
March 5, 2015
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Appendix C Gila River Indian Community Public Forum
Appendix D Record of Decision Supporting Documents

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<thead>
<tr>
<th><strong>GLOSSARY</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>American Indian and Alaskan Native</strong></td>
<td>A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.</td>
</tr>
<tr>
<td><strong>Arizona Department of Environmental Quality (ADEQ)</strong></td>
<td>The State agency responsible for ensuring that the quality of Arizona’s air, land, and water resources meets healthful, regulatory standards.</td>
</tr>
<tr>
<td><strong>Arizona Department of Transportation (ADOT)</strong></td>
<td>The State agency responsible, among other things, for state roads and highways.</td>
</tr>
<tr>
<td><strong>arterial</strong></td>
<td>A through-road or street.</td>
</tr>
<tr>
<td><strong>Asian American</strong></td>
<td>A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands.</td>
</tr>
<tr>
<td><strong>at-grade roadway</strong></td>
<td>A roadway element that is approximately level with the immediate surrounding terrain.</td>
</tr>
<tr>
<td><strong>barrier</strong></td>
<td>A solid wall or earthen berm located on a direct line between the roadway and noise receiver location that reduces the noise level at the receiver. Some material that blocks or is intended to block passage, or a natural formation or structure that prevents or hinders movement or action.</td>
</tr>
<tr>
<td><strong>Black/African American</strong></td>
<td>A person having origins in any of the black racial groups of Africa.</td>
</tr>
<tr>
<td><strong>blasting</strong></td>
<td>The controlled use of explosives to excavate or remove rock.</td>
</tr>
<tr>
<td><strong>buffer capacity</strong></td>
<td>The maximum number of vehicles that a given section of road or traffic lane can accommodate.</td>
</tr>
<tr>
<td><strong>carbon monoxide (CO)</strong></td>
<td>An odorless, colorless gas that is a product of the combustion of hydrocarbons; it interferes with the body’s organs and tissues.</td>
</tr>
<tr>
<td><strong>citizens advisory team</strong></td>
<td>A group of volunteers that meets regularly and acts as a sounding board to help the project team understand issues and concerns of their respective communities and to help find a consensus solution for the project.</td>
</tr>
<tr>
<td><strong>community character</strong></td>
<td>A set of parameters that creates a “sense of place” within a community. Factors contributing to community character are physical size, compatible land uses within the community, internal circulation, distinct but common architectural and cultural activities.</td>
</tr>
<tr>
<td><strong>community cohesion</strong></td>
<td>The dynamic within a community that promotes internal neighborhood circulation to and from residences and community facilities, quasi-public facilities, and regularly required activities such as food shopping at local grocery stores.</td>
</tr>
<tr>
<td><strong>congestion</strong></td>
<td>Traffic volume on a road at sufficient densities to become detrimental to its performance; undesirable traffic conditions that exist when traffic on a freeway or street is moving at an average speed of 45 miles per hour or less, and/or the traffic flow is often stop and go.</td>
</tr>
<tr>
<td><strong>cooperating agency</strong></td>
<td>Another agency—federal, state, or local—that has jurisdiction by law or special expertise over portions of the project area and that must make a decision on the proposed project.</td>
</tr>
<tr>
<td><strong>critical habitat</strong></td>
<td>Critical habitat is defined in Section 3(5)(A) of the Endangered Species Act. Critical habitat consists of specific geographic areas that contain features essential to the conservation of a species and that may require special management or protection.</td>
</tr>
<tr>
<td><strong>design year</strong></td>
<td>The future year used to determine the probable traffic volume for which a highway and noise abatement are designed.</td>
</tr>
<tr>
<td><strong>Eastern Section</strong></td>
<td>The portion of the Study Area located east of the common point, which is a line perpendicular to the Gila River Indian Community boundary through a point located near Elliot Road and 59th Avenue (see Figure 13).</td>
</tr>
<tr>
<td><strong>elderly</strong></td>
<td>Those persons age 60 and older.</td>
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<tr>
<td><strong>elevated roadway</strong></td>
<td>A roadway constructed above the immediate surrounding terrain, either on an embankment or a structure.</td>
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<tr>
<td><strong>emission</strong></td>
<td>A substance discharged into the air, for the purposes of this document, particularly by an internal combustion engine.</td>
</tr>
<tr>
<td><strong>endangered species</strong></td>
<td>Any plant or animal species that is in danger of extinction throughout all or a significant portion of its range.</td>
</tr>
<tr>
<td><strong>environmental impact statement (EIS)</strong></td>
<td>The project documentation prepared in accordance with the National Environmental Policy Act when a project is anticipated to have a significant impact on the environment.</td>
</tr>
<tr>
<td><strong>Federal Highway Administration (FHWA)</strong></td>
<td>The branch of the U.S. Department of Transportation responsible for administering the Federal-aid Highway Program and the Federal Lands Highway Program. The programs provide financial resources and technical assistance for constructing, preserving, and improving the National Highway System along with other urban and rural roads.</td>
</tr>
<tr>
<td><strong>fill</strong></td>
<td>Earth used to create embankments or to raise low-lying areas to bring them to grade.</td>
</tr>
<tr>
<td><strong>floodplain</strong></td>
<td>The portion of a stream valley, adjacent to the channel, that is covered with water when the stream overflows its banks at flood stage.</td>
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<tr>
<td><strong>geotechnical</strong></td>
<td>Referring to the use of scientific methods and engineering principles to acquire, interpret, and apply knowledge of earth materials for solving engineering problems.</td>
</tr>
<tr>
<td><strong>groundwater</strong></td>
<td>Water that collects or flows beneath the Earth’s surface, filling the porous soil, sediment, and rocks.</td>
</tr>
<tr>
<td><strong>Habitat</strong></td>
<td>Place where an animal or plant normally lives, often characterized by a dominant plant form or physical characteristic.</td>
</tr>
<tr>
<td><strong>Hispanic/Latino</strong></td>
<td>Of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.</td>
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<tr>
<td><strong>household</strong></td>
<td>A social unit consisting of these living together in the same dwelling.</td>
</tr>
<tr>
<td><strong>impact</strong></td>
<td>A direct or indirect consequence of the construction or operation of a proposed alternative, including the No-Action Alternative, on the environment in the Study Area; can be negative, positive, or neutral.</td>
</tr>
<tr>
<td><strong>independent utility</strong></td>
<td>The ability of the proposed action to function as proposed, independent of other planned transportation-related projects in the region.</td>
</tr>
<tr>
<td><strong>jurisdiction</strong></td>
<td>Refers to the territory over which authority is exercised.</td>
</tr>
<tr>
<td><strong>level of service (LOS)</strong></td>
<td>The operating performance of an intersection or roadway segment can be described using the term level of service. Level of service is a qualitative description of operation based on the degree of delay and maneuverability.</td>
</tr>
<tr>
<td><strong>listed species</strong></td>
<td>Any species of fish, wildlife, or plant that has been determined to be endangered or threatened under Section 4 of the Endangered Species Act.</td>
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<tr>
<td>Logical termini</td>
<td>Description</td>
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<tr>
<td>Rational end points</td>
<td>Points for a transportation project and for a review of environmental impacts.</td>
</tr>
<tr>
<td>low-income</td>
<td>Populations in households with an income at or below the poverty guidelines</td>
</tr>
<tr>
<td>minority populations</td>
<td>Individuals or groups who identify with a race other than Caucasian, or more than one race.</td>
</tr>
<tr>
<td>mitigation</td>
<td>An action taken to reduce or eliminate an adverse impact stemming from construction, operation, or modification of a proposed action alternative. Mitigation includes: Avoiding the impact altogether by not taking a certain action or parts of an action; Minimizing impacts by limiting the degree of magnitude of the action and its implementation; Rectifying the impact by repairing, rehabilitating, or restoring the affected environment; Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; Compromising for the impact by replacing or providing substitute resources or environments.</td>
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<tr>
<th>Standards</th>
<th>Description</th>
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<tbody>
<tr>
<td>National Ambient Air Quality Standards (NAAQS)</td>
<td>Standards set by the U.S. Environmental Protection Agency to protect public health and welfare. These standards are set for pollutant concentrations that states, cities, and towns must meet by specified deadlines.</td>
</tr>
<tr>
<td>National Environmental Policy Act (NEPA) of 1969</td>
<td>The federal law, enacted in 1970, that established a national policy for the environment and requires federal agencies to become aware of the environmental ramifications of their proposed actions, to fully disclose to the public proposed federal actions, to provide a mechanism for public input to federal decision making, and to prepare environmental impact statements for every major action that would significantly affect the quality of the human environment.</td>
</tr>
<tr>
<td>National Historic Preservation Act of 1966 (NHPA)</td>
<td>The primary federal law pertaining to the protection of historic and prehistoric resources.</td>
</tr>
<tr>
<td>National Register of Historic Places (NRHP)</td>
<td>The nation's official list of cultural resources worthy of preservation. Authorized under the National Historic Preservation Act of 1966, the National Register of Historic Places is a program to coordinate and support public and private efforts to identify, evaluate, and protect historic and prehistoric resources. Properties listed in the National Register of Historic Places include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archaeology, engineering, and culture.</td>
</tr>
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</table>

| Overpass                  | A grade separation, usually a bridge, where the freeway passes over the cross street or rail line. |
| ozone (O₃)                | A molecule consisting of three atoms of oxygen. It is a criteria pollutant that can develop when oxides of nitrogen, volatile organic compounds, and sunlight interact in the lower atmosphere. Ozone is a powerful oxidizing agent that damages tissues in living organisms. |
| particulate matter (PM₁₀) | Particulate matter of 10 microns or less in diameter. |
| population               | All the organisms living in a given area; a group of individuals. |
| prime farmland           | Land that has the best combination of physical and chemical characteristics for producing food, feed, fiber, forage, and other agricultural crops with minimum inputs of fuel, fertilizer, pesticides, and labor, and without intolerable soil erosion. |
| prior rights              | As used in this document, prior rights refer to a situation involving a utility company that has facilities located on private easements that are later acquired or encompassed by the State's right-of-way. In this situation, the utility is given a choice of relocating its conflicting facilities onto a public right-of-way or of acquiring a new easement and relocating onto it. Either would be at the Arizona Department of Transportation's expense. |
| project sponsor          | An individual, agency, or group who lends support to the project by advocacy and/or financial means. |
| prudent and feasible     | This concept is essential to the Section 4(f) of the Department of Transportation Act of 1966 process. It refers to how practical an alternative is in its attempt to avoid the use of a Section 4(f) resource. The term feasible refers to whether a project can be built using current construction methods, technologies, and practices. The term prudent refers to how reasonable and responsible the alternative is. The Arizona Department of Transportation is obligated to choose an avoidance alternative only if it is prudent and feasible. |
| reasonable alternatives  | Feasible options for a proposed action. |
| receiver                 | The location at which noise levels are measured, modeled, and analyzed. Receivers of interest are typically residences, schools, parks, or other noise-sensitive land uses. |
| right-of-way (R/W)       | Publicly owned land used or intended to be used for transportation and other purposes. |
| rolling profile          | A roadway that follows the land contour and is not flat. Slight crests and sags in the roadway help avoid concentrated stormwater drainage and assist in making travel interesting for drivers, thus improving safety. Such a road profile helps to cost-effectively balance the import and export of fill material and to minimize the amount of land that must be acquired. |

| Native                    | An indigenous person, plant, or animal. |
Under Section 106 of the National Historic Preservation Act of 1966, federal agencies are required to identify and evaluate historic and prehistoric resources and consider the impact of undertakings they fund, license, permit, or assist on historic and prehistoric properties eligible for inclusion in the National Register of Historic Places. The federal agencies must allow the State Historic Preservation Office and the Advisory Council on Historic Preservation the opportunity to comment on these undertakings.

A later amendment to the Department of Transportation Act of 1966 stipulating that the Federal Highway Administration and other departments of transportation using federal funds cannot approve the use of land from a significant publicly owned public park, recreation area, wildlife or waterfowl refuge, or any significant cultural resource unless there is no prudent and feasible alternative to the use of that land and unless the action includes all possible planning to minimize harm to the property resulting from its use.

The Study Area is the boundary of area evaluated for the South Mountain Freeway Environmental Impact Statement and Section 4(f) Evaluation. For any given species, defined as habitat that contains the components (i.e., food, cover, and nesting/breeding site) required for the survival and reproduction of a species.

A traffic interchange connecting two or more freeway facilities and allowing for uninterrupted traffic flow as motorists move from one facility to another.

Any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

A general term for strategies that encourage more efficient use of existing transportation resources.

Land other than prime farmland that is used for the production of specific high-value food and fiber crops, such as citrus, tree nuts, olives, cranberries, fruits, and vegetables.

The agency responsible for transportation issues in the federal government. It consists of many agencies providing transportation services to the public, including the Federal Highway Administration and the Federal Aviation Administration.

A "use" of a Section 4(f) resource, as defined in 23 Code of Federal Regulations § 774.17, occurs 1) when land is permanently incorporated into a transportation facility, 2) when there is a temporary occupancy of land that is adverse in terms of the statute’s preservationist purpose, or 3) when there is a constructive use of land. A constructive use of a Section 4(f) resource occurs when the transportation project does not incorporate land from the Section 4(f) resource, but the project’s proximity impacts are so severe that the protected activities, features, or attributes that afford a resource protection under Section 4(f) are substantially impaired.

An entity that transmits or distributes communication, cable television, electricity, light, heat, gas, petroleum products, water, sewer, waste, or any other similar commodity that directly or indirectly serves the public. For this document, a railroad is considered a utility.

The portion of the Study Area located west of the common point, which is a line perpendicular to the Gila River Indian Community boundary through a point located near Elliot Road and 59th Avenue (see Figure 13).
# ABBREVIATIONS AND ACRONYMS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>101L</td>
<td>Loop 101</td>
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<tr>
<td>202L</td>
<td>Loop 202</td>
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<tr>
<td>203L</td>
<td>Loop 203</td>
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<tr>
<td>A.A.C.</td>
<td>Arizona Administrative Code</td>
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<tr>
<td>AASHTO</td>
<td>American Association of State and Highway Transportation Officials</td>
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<tr>
<td>ADA</td>
<td>Arizona Department of Agriculture</td>
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<tr>
<td>ADEQ</td>
<td>Arizona Department of Environmental Quality</td>
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<tr>
<td>ADOT</td>
<td>Arizona Department of Transportation</td>
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<tr>
<td>AGFD</td>
<td>Arizona Game and Fish Department</td>
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<tr>
<td>ASLD</td>
<td>Arizona State Land Department</td>
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<td>ASM</td>
<td>Arizona State Museum</td>
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<td>AZ</td>
<td>Arizona</td>
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<tr>
<td>AZPDES</td>
<td>Arizona Pollutant Discharge Elimination System</td>
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<tr>
<td>BIA</td>
<td>U.S. Bureau of Indian Affairs</td>
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<tr>
<td>BLM</td>
<td>Bureau of Land Management</td>
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<tr>
<td>BMP</td>
<td>Best management practice</td>
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<tr>
<td>CEQ</td>
<td>Council on Environmental Quality</td>
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<tr>
<td>C.F.R.</td>
<td>Code of Federal Regulations</td>
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<tr>
<td>CO</td>
<td>Carbon monoxide</td>
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<tr>
<td>Community</td>
<td>Gila River Indian Community</td>
</tr>
<tr>
<td>CPAO</td>
<td>Communications and Public Affairs Office</td>
</tr>
<tr>
<td>CWA</td>
<td>Clean Water Act</td>
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<tr>
<td>DEIS</td>
<td>Draft Environmental Impact Statement</td>
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<tr>
<td>Department</td>
<td>U.S. Department of the Interior</td>
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<td>EI</td>
<td>El Alternative</td>
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<tr>
<td>EIS</td>
<td>Environmental impact statement</td>
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<tr>
<td>EMP</td>
<td>Environmental Management Plan</td>
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<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
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<tr>
<td>EPG</td>
<td>Environmental Planning Group</td>
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<tr>
<td>ESA</td>
<td>Endangered Species Act</td>
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<tr>
<td>FCDMC</td>
<td>Flood Control District of Maricopa County</td>
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<tr>
<td>FEIS</td>
<td>Final Environmental Impact Statement</td>
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<td>FHWA</td>
<td>Federal Highway Administration</td>
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<tr>
<td>FPPA</td>
<td>Farmland Protection Policy Act</td>
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<tr>
<td>HOV</td>
<td>High-occupancy vehicle</td>
</tr>
<tr>
<td>HPT</td>
<td>Historic Preservation Team</td>
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<tr>
<td>HUD</td>
<td>U.S. Department of Housing and Urban Development</td>
</tr>
<tr>
<td>I-8</td>
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<tr>
<td>I-10</td>
<td>Interstate 10</td>
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<td>I-17</td>
<td>Interstate 17</td>
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<tr>
<td>IGA</td>
<td>Intergovernmental agreement</td>
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<tr>
<td>LOS</td>
<td>Level of service</td>
</tr>
<tr>
<td>LWCF</td>
<td>Land and Water Conservation Fund</td>
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<tr>
<td>LWCF-Act</td>
<td>Land and Water Conservation Fund Act</td>
</tr>
<tr>
<td>MAG</td>
<td>Maricopa Association of Governments</td>
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<tr>
<td>MSATS</td>
<td>Mobile source air toxics</td>
</tr>
<tr>
<td>NAQS</td>
<td>National Ambient Air Quality Standards</td>
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<tr>
<td>NEPA</td>
<td>National Environmental Policy Act</td>
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<tr>
<td>NESHAP</td>
<td>National Emissions Standards for Hazardous Air Pollutants</td>
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<td>NHPA</td>
<td>National Historic Preservation Act</td>
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<tr>
<td>NPS</td>
<td>National Park Service</td>
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<tr>
<td>NRCS</td>
<td>Natural Resources Conservation Service</td>
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<tr>
<td>OHP</td>
<td>National Register of Historic Places Commission</td>
</tr>
<tr>
<td>OHWM</td>
<td>Ordinary high water mark</td>
</tr>
<tr>
<td>PA</td>
<td>Programmatic agreement</td>
</tr>
<tr>
<td>PM_{2.5}</td>
<td>Particulate matter of 2.5 microns or less in diameter</td>
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<tr>
<td>PM_{10}</td>
<td>Particulate matter of 10 microns or less in diameter</td>
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<tr>
<td>ROD</td>
<td>Record of decision</td>
</tr>
<tr>
<td>RTP</td>
<td>Regional Transportation Plan</td>
</tr>
<tr>
<td>R/W</td>
<td>Right-of-way</td>
</tr>
<tr>
<td>SAFETEA-LU</td>
<td>Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users</td>
</tr>
<tr>
<td>SHPO</td>
<td>State Historic Preservation Office/Officer</td>
</tr>
<tr>
<td>SMPP</td>
<td>Phoenix South Mountain Park/Preserve</td>
</tr>
<tr>
<td>SR</td>
<td>State Route</td>
</tr>
<tr>
<td>SWPPP</td>
<td>Stormwater Pollution Prevention Plan</td>
</tr>
<tr>
<td>TCP</td>
<td>Traditional cultural property</td>
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<tr>
<td>TDM</td>
<td>Transportation demand management</td>
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<tr>
<td>THPO</td>
<td>Tribal Historic Preservation Office/Officer</td>
</tr>
<tr>
<td>Title VI</td>
<td>Title VI of the Civil Rights Act of 1964</td>
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<tr>
<td>TSM</td>
<td>Traffic system management</td>
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<tr>
<td>Uniform Act</td>
<td>Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970</td>
</tr>
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<td>UPRR</td>
<td>Union Pacific Railroad</td>
</tr>
<tr>
<td>U.S.</td>
<td>United States</td>
</tr>
<tr>
<td>US 60</td>
<td>U.S. Route 60</td>
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<tr>
<td>USACE</td>
<td>U.S. Army Corps of Engineers</td>
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<tr>
<td>USFWS</td>
<td>U.S. Fish and Wildlife Service</td>
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<tr>
<td>W101</td>
<td>W101 Alternative</td>
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<td>W55</td>
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