

Appendix A-1

Focus of Comment (ex. Criteria, General, Website)	Criteria (ex. PD-3, SP-10, N/A)	2014 Comments
Criteria General		Separate PD criteria for Tribal considerations that clearly streamlines project delivery and contributes to sustainability – "first recognize the great diversities of culture, history, geography, language, government, religion/belief systems, economy, infrastructure, and worldview prior to choosing the right practices to use. As previously noted, there is not a cookbook approach to tribal consultation." NCHRP PROJECT 25-25 TASK 79 - SUCCESSFUL PRACTICES FOR EFFECTIVE TRIBAL CONSULTATION
Criteria General		Credit could be given if the project team even conducted a basic inventory of sustainable practices implemented on a given project. This could be credit if something happened during the progress meeting or at the end of the project design phase or construction phase http://ascellibrary.org/doi/abs/10.1061/9780784413197.032
Criteria General		More dynamic credit for highway improvement projects that reuse existing pavements and structures, use innovative contracting, use native site vegetation, anything dynamic that would result in defensible actions especially as they relate to urban arterials with sidewalks, bicycle lanes, and noise walls.
Criteria General		Separate PD criteria for Construction Materials – there are a myriad of materials (standard and non-standard) that can be used to greatly enhance sustainability credit beyond earthwork, pavement etc. an example is: The URETEK Deep Injection process was used by local Railway & Highway Authorities to void fill and stabilize suspected weak base soils along one if its highway over pass structures. The process is "a two-part expanding resin system (an expansion co-efficient of twenty to one) and a quick cure time (15 minutes)." This process can be used to void fill and stabilize suspected weak soils when retaining walls are being installed. In this example the company did "laboratory testing of the material used, proved it maintains its integrity for more than 10 years with no shrinkage or degradation. Secondly this remedial work was completed over several night shifts to significantly reduce the impacts to normal operations of the facility. Lastly, the polymer resins injected cure within 15 minutes allowing the excavation procedure to resume almost immediately."
Criteria General		Separate SP, PD, OM for Extreme Weather - As additional versions are developed I would recommend there be credit earned for planning, design and continued maintenance of extreme weather planning and impacts. Since this is such a national focus it would be timely. From an Agency and asset standpoint (Specific expansion of SP-15, SP-16, PD-3, PD-8, expand OM-12; According to the Federal Highway Administration's (FHWA) Office of Asset Management, a Transportation Asset Management Plan (TAMP) can "act as a focal point for information" about state DOT assets, their risk management strategies and business management processes, and how well yet-to-be-realized risks are being incorporated. Climate change and extreme weather has become one of those unknown risks and should be included as part of the life cycle costing and risk management framework development within a state DOT TAMP. Considering the balance between predictable asset deterioration curves and the sudden and unpredictable nature of extreme weather impacts can serve as an important risk management component. FHWA already has multiple climate change and extreme weather vulnerability assessment pilots underway focused on transportation infrastructure, options for adapting and improving resiliency, and contributing to a nationally recognized framework. A component of some of these pilots considers specific classes of asset vulnerability. Therefore, developing an additional individualized process that allows for the consideration of climate change and extreme weather directly to a state's DOT TAMP development is appropriate and would contribute to the wider FHWA asset management program.
Criteria General		As to mining and other state route development issues, credit could be given for having a Licensed Material Sources Inventory. Any number of credits could be earned especially in Western States that are impacted by Federal Land issues connected to project development.
Criteria General		ADOT is at a huge INVEST disadvantage related to Federal Lands and Tribal Lands in that credit is not available for Western States that have incredible amounts of social, environmental, economic project development consideration related to F & T Lands. Forty-two percent of Arizona's land is federally-owned non-Indian lands and nearly 28 percent is Indian Reservations land. The federal government maintains 22 percent of the roads in the state through its Federal Lands and Highways Program due to the large number of national parks and federal lands in Arizona. Additionally, there are 22 federally-recognized American Indian Tribes and Native Nations with reservation land in Arizona. This tribal land encompasses 27,736,000 acres and includes 1,324 centerline miles of highways or about 20 percent of the Arizona State Highway System. Tribal governments have jurisdictional decision making authority over roads and improvements of roads on their reservation land, as well as any proposed projects to accommodate and improve regional traffic circulation.
Criteria General		Separate PD criteria for hydraulics would allow for additional points to be earned by the extensive material staging and fill stockpiling incurred by bridge scour projects. Arizona has over 7,000 highway bridges and ADOT maintains over 4,700, in order to address deficiency ratings by US Federal Highway Administration (FHWA) reporting standards ADOT has extensive bridge deck replacement, bridge replacement and scour projects. During the constructability phase the positioning and stockpiling can measurably change how fill material is moved around the site and if the dump truck travel trips are increased or decreased. For example; If the temporary stockpile access roads do not have a proper rotational design the dump truck trips may be forced to continue down the road all the way to the next exit to get to the other side. If crossover is done properly, the trucks can maintain a tight rotation reducing fuel costs and emissions (this could also be placed in PD-26).
Criteria General		Separate PD criteria for hydraulics would allow for additional points to be earned by the extensive material staging and fill stockpiling incurred by bridge scour projects. Arizona has over 7,000 highway bridges and ADOT maintains over 4,700, in order to address deficiency ratings by US Federal Highway Administration (FHWA) reporting standards ADOT has extensive bridge deck replacement, bridge replacement and scour projects. During the constructability phase the positioning and stockpiling can measurably change how fill material is moved around the site and if the dump truck travel trips are increased or decreased. For example; If the temporary stockpile access roads do not have a proper rotational design the dump truck trips may be forced to continue down the road all the way to the next exit to get to the other side. If crossover is done properly, the trucks can maintain a tight rotation reducing fuel costs and emissions (this could also be placed in PD-26).
Criteria General		Separate PD criteria for hydraulics – The scour projects themselves would allow for extensive points to be earned in how seeding is addressed above the low water mark. How many trips dot district manpower would need to be mobilized to ensure seeding has taken hold. This seeding in the wash is a big deal in AZ as wash silt and ag field dirt is a big contributor to the non-attainment and PM 2.5 and PM-10 issues.
Criteria General		Suggest the tool find a way to allow addition credit for where project development enhances constructability improvements that clearly crossover or exponentially increase sustainable benefits. In other words, if a scour project gets a point for addressing the drainage problem it gets one point. But, if a scour project addresses a drainage problem (1 point) and the subsequent seeding in the wash above the low water mark, due to the scour project work, contributes to lower dust impact in a non-attainment area you would get 2 or 3 more points due to proven crossover benefits.
Criteria Specific	PD-1	The link to the TIGER Grant BCA is not as helpful as it could be – a more direct link would be recommended - http://www.dot.gov/policy-initiatives/tiger/tiger-bca-resource-guide
Criteria Specific	PD-1	An avenue for the project team to input their project through the FHWA BCA site would be helpful. ADOT has an internal CBA process but to take points converting it to a BCA should be written out as an option.
Criteria Specific	PD-1	Finding the actual BCA and the amount of time to input your project into BCA is a substantial time commitment - Are all State DOTs familiar with FHWA BCA – outreach should be a future effort for PD-1.
Criteria Specific	PD-1	Once you get to the FHWA BCA portal – you are told that DOT employees must use UPACS to register – I apologize – I do not know what a UPAC is?

Appendix A-1 continued

Focus of Comment (ex. Criteria, General, Website)	Criteria (ex. PD-3, SP-10, N/A)	2014 Comments
Criteria Specific	PD-1	
Criteria Specific	PD-1	Recommend the actual BCA process be a sub activity actually in PD-1
Criteria Specific	PD-7	Deeper credit for recognizing/managing heavy metals in highway runoff as they relate to aquatic organisms. Especially as the runoff relates to high traffic, high precipitation areas close to waters. The focus should credit where additional project review was undertaken related to runoff containing "higher concentrations of metals, particularly: lead, zinc, iron, chromium, cadmium, nickel and copper from brakes, tires, other vehicle parts. Addressing or creating BMPs for solubility and leaching could be part of the highest credit available.
Criteria Specific	PD-7	In Arizona, mitigation banking is currently not an option. ADOT's current policy is to avoid and/or mitigate. If this is not possible, in lieu fees will be paid. Avoidance areas and mitigation are determined by qualified individuals through coordination with the land managing agencies and/or the regulating agency. Possible points should be considered for extensive coordination and involvement with the land managing agency to meet various requirements related to habitat conservation. Since Arizona is comprised significantly of managed lands (other than private), coordination and open lines of communication are key.
Criteria Specific	PD-8	Increase scoring capabilities for treatment of highway runoff using the permeable friction course (PFC) and just as AC reference internal entity activity that could show research connectivity to actual project development i.e. http://ascelibrary.org/doi/abs/10.1061/9780784413197.012
Criteria Specific	PD-8	From the link above: Concern about the environmental impacts of highway runoff has led many regulatory agencies to require its treatment prior to discharge. An emerging technology for treating highway runoff is the permeable friction course (PFC). PFC consists of a layer of porous asphalt approximately 50 mm thick placed as an overlay on top of an existing conventional surface.
Criteria Specific	PD-8	Extensive credit could be developed for further roadway runoff or project remediation of soils connected to the project; project related crop/ag land runoff credit for accounting or remediating for nutrients, animal waste, sediments, salts, pesticides, fertilizers or any high concentration contaminant connected to project.
Criteria Specific	PD-8	Credit could be developed for point and non-point sources that are remediated in connection with a project; point sources like industrial waste, disposal sites, municipal landfills, septic tanks (AZ regularly has to address well and septic issues related to early settlement of towns along the current highway system).
Criteria Specific	PD-8	Credit could be given for participation in a stormwater outreach program that has its roots at the project development level (ADOT's http://azstorm.org/assets/annual_reports/2013-annual-report.pdf) –
Criteria Specific	PD-8	Credit could be given for an entity having a stormwater annual report or Statewide Stormwater Management Program that specifically references project development - https://www.azdot.gov/docs/default-source/planning/stormwater-annual-report-2013.pdf?sfvrsn=4
Criteria Specific	PD-8	Credit could be given for the existence of an avenue for construction site violations that clearly contribute to long term non-sustainability practices – ADOT does so in their annual report - "Provide a list and description of all violations ADOT has determined at construction sites and their resolution, including any enforcement actions taken against ADOT contractors, in accordance with Section 5.3.1 (Section 5.3.4).
Criteria Specific	PD-9	To determine wildlife corridors, ADOT not only used readily available GIS information, but we also always consult the AGFD online tool, scope AGFD and USFWS. In addition to this if we are along easement through another agencies land, we will also coordinate with the land owner for supplementary information. ADOT recently began funding a position within Environmental Services to evaluate wildlife movements and corridors throughout our state on a regional and local level. This will aid in our ability to accommodate wildlife connectivity projects well in advance prior to just in design. Consideration for additional awarded points should be evaluated for such planning activities: higher levels of communication beyond just GIS confirmation and funded positions solely for the purpose of evaluating such corridors/connectivity.
Criteria Specific	PD-12	Credit should be available when the projects include ITS that would increasing transit rider and HOV lane route and mode choice and can show any mode shift to/from alternate modes or clearly adds capacity or ramp to park and rides. Also proven project development that install ITS to avoid serious traffic congestion would lower emissions hot spots.
Criteria Specific	PD-12	Credit should be available when the project statement of need includes increased emphasis on carpooling, van pooling, park and ride access, transit center access.
Criteria Specific	PD-16	On top of meeting the requirements to ensure the scenic road remains as such, ADOT always initiates coordination with the land managing agency to ensure their requirements are met as well such as undulating cut slopes and uneven vegetation/ ROW lines. Again, additional coordination should be considered as valuable points.
Criteria Specific	PD-18	Current ADOT practice is to consider all of the points mentioned in the referenced table. Other options to consider may consist of: - Choosing readily available local plants. - Reuse of plants which were salvaged and re-transplanted back into the project limits or were able to be utilized elsewhere. Allowing a higher scoring limit for this section should be considered.
Criteria Specific	PD-19	Applying lime to stabilize existing subgrade and base can reduce earthwork needs during a project to reconstruct and widen travel lanes
Criteria Specific	PD-20	Credit and further expansion of hot in-place recycling activities as they can rehabilitate pavements with minimal use of new materials.
Criteria Specific	PD-20	Credit for affective use of slag cement clearly showing beneficial concrete properties & durability & mix. Slag Cement is often used to provide higher durability in severe exposures. Slag cement does not have a big impact fresh and hardened concrete properties, except in cold weather at high replacements. Slag cement reduces permeability & chloride penetration Slag cement reduces rate of steel corrosion in concrete. Slag cement can eliminate ASR expansion / damage.

Appendix A-1 continued

Focus of Comment (ex. Criteria, General, Website)	Criteria (ex. PD-3, SP-10, N/A)	2014 Comments
Criteria Specific	PD-21	<p>More extensive credit should be given for earthwork activities – i.e. areas where there is reduced hauling, labor, and fuel costs, and to reduce emissions and traffic congestion. One approach could be to include Earthwork Management Plan (EMP) at least for Urban Extended PD. Example would be how the O'Hare Airport Modernization Program (OMP) used an EMP. Credit could be given for entities that have either an internal EMP process or might even have an "An Earthwork Management Committee was also established to make every effort to effectively match available soil material resources with project earthwork needs. The committee has the responsibility of updating the EMP and coordinating future changes resulting from decisions made during the design and construction phases. The goal of the Earthwork Management Committee is to update and maintain a current EMP that allows OMP leadership to make timely and informed decisions regarding earthwork relocation costs, phasing, quality, and quantities for both individual projects and the OMP as a whole.</p> <p>The CDA's Earthwork Management Plan has kept soil on-site and out of landfills, helping the CDA achieve the triple bottom line by being economically viable, socially responsible, and environmentally sound. Soil has been reused as part of new projects or stockpiled for future use, saving over \$150 million. By keeping soil on-site, the CDA has also saved more than 630,000 truck trips and more than 73,000 tons of carbon dioxide," as was explained by the OMP project.</p>
Criteria Specific	PD-22	Expand credit for asphalt mixes – AZ is influenced by elevation from sea level to 8,000 feet. Warm mix asphalt can lower the required temperature for processing at the plant and application at the jobsite, saving energy and cutting air emissions. It also can improve compaction. Cold can also have positive attributes.
Criteria Specific	PD-23	Suggest upgrading the concrete work criteria segments - points could earned for any project activity connections directly related to next gen research i.e. Concrete Sustainability Hub at the Massachusetts Institute of Technology (MIT) http://cshub.mit.edu/ or even connections shown thru internal DOT research activities http://www.azdot.gov/planning/CurrentStudies .
Criteria Specific		
Criteria Specific	PD-25	<p>When environmental concerns require special mitigation such as awareness and training exercises for all personal in the field during construction, typically ADOT does one of three things:</p> <ul style="list-style-type: none"> - Require all personal carry or have an informational flyer readily available on the job site. - The contractor holds a preconstruction meeting to discuss environmental concerns and informational awareness flyers. - Have a qualified biologist conduct environmental awareness training prior to the construction start or prior to defined construction activities. <p>Due to the variation in requirements, it may be beneficial to consider awarding points according to the level of training recommended. For example, having a qualified biologist conduct a meeting should equate to 3 points, and just providing an informational flyer may suffice for 1 point.</p>
Criteria Specific	PD-29	Credit for when waste and recycled materials harmful to receiving waters is addressed. I believe FHWA is studying to what extent waste and recycled materials used in construction could adversely impact receiving waters. The NCHRP 25-9 Env Impacts of Construction and Repair Materials on Surface and Groundwaters – coal ash, scrap rubber, others.
Website User Comments		<p>It seems the tool would be best utilized if multiple levels within ADOT were applying the scorecard function throughout the life of a project. Some of the questions relate to design others to environmental and post construction. Perhaps the following phases should be included in implementing the tool:</p> <ul style="list-style-type: none"> - Early planning - Environmental and design - Contracts and post construction <p>Then the final information should circle back around to early planning. This would aid in reiterating what was a success and what was lacking to all parties involved. If the tool is only used by the environmental and design groups, it seems no substantial improvements will be made. Early planning is essential in providing enough funding to prepare for more sustainable future projects.</p>
Website Design Preferences		Perhaps include more goals which could be achieved during the design phase of projects. Many of the scorecard criteria are geared toward post design/construction. Maybe if we have more opportunities to increase improvement during design, the construction aspect will improve as well. Since ADOT cannot be extremely specific in terms of how a project must be constructed via a contract, the sustainable design of the project is vital.
Website Design Preferences		Is there or will there be a way to view other projects which were ran through our agency, possibly through selecting projects on a state map along specific routes?... It would be interesting and useful to see how others integrate innovative designs possibly even in smaller pavement preservation projects.
Website Design Preferences		Is there or will there be a way to view how other states are performing, perhaps see where they consistently receiving a Gold level standard? This might help promote ideas and forward thinking here at ADOT. It would be interesting to be able to view full case studies and scoring.
Website Design Preferences		Maybe each project should require the user to download plan sets and other technical aspects of the project to allow other users to fully understand/ remember what the project parameters were.
Website Design Preferences		Add the required information tables and definitions to the webpage when rating criteria. It is bothersome to be forced to open a PDF file in order to read guidance.
Website Design Preferences		Define project development scorecard titles (i.e. Rural basic and rural extended) on the 1st page, maybe utilizing hover text.
Website Design Preferences		Once the criteria are completed, highlight to show it has been completed. It would be easier to progress down the list if completed tasks are another color.
Website Design Preferences		Light green and white color scheme is not eye catching enough. At first, I did not even notice the "Great! Your response has been saved. (Return to scorecard)" link which pops up when a criterion is completed.
Website Design Preferences		Provide an explanation for when or how to use the "filter the criteria" option. I selected the filter option "Environmental", and nothing changed what so ever.
Website Design Preferences		The projects should include a not applicable (N/A) option when completing the questions. For example, some questions refer to structures when many of our projects do not include structures.
Website Design Preferences		The questions on the right side should be numbered.
Website Design Preferences		Provide more information regarding certain reports which are indicated throughout the criteria. Some information in the PDF files is useful; however, it would be nice to see real life examples and data sets.

Table 1. Anticipated Schedule for ADOT INVEST Implementation

The INVEST Implementation will center on an extensive assessment of roundabouts statewide and other projects in the ADOT 5-Year Construction Program using the INVEST PD module. The ADOT project management team (Kristen Keener Busby and Steven Olmsted) will lead the tasks listed in Table 1. The project will have a senior advisor and reviewer (Paul O’Brien – Group Manager Environmental Planning Group). The ADOT project management team will operate as a liaison with the ADOT groups, FHWA and project stakeholders to coordinate movement through the scheduled tasks, workshops and problem solving. The project management team will prepare the study reports. Again, Table 1 maps out the task, schedule and deliverable. Please find some additional steps identified for the work plan.

Work Steps to Achieve Action Plan:

- Discuss deliverables with FHWA.
- Update ADOT inventory of roundabout projects and the relevant growth of roundabouts.
- Establish INVEST participation groups.
- Identify ADOT’s policies, processes, procedures and practices that might align with INVEST.
- Identify ADOT’s Traffic Engineering policies, processes, procedures and practices that align with INVEST.
- Review the INVEST criteria and gather information.
- Identify criterion; title, goal, point ranges, sustainability linkages to the triple bottom line principles (social, economic, environmental), participant descriptions, scoring requirements, and scoring sources for the INVEST practice exercises.
- Conduct INVEST workshops.
- **Score roundabout projects using the INVEST tool**
- **Score other projects using the INVEST tool**
- Identify INVEST tool best practices, issues encountered, improvements, future actions to contribute to the overall final report.

Deliverables (See Table 1 next page)

Task	2013											2014			
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr-Sept	Sept-Dec
Phone call with FHWA staff															
Revise scope															
Organize participation group															
1. Compile inventory, policies, procedures, practices															
2. Define Focus Group agenda and Q&A															
Project Summary circulated for comments															
3. Conduct INVEST workshops															
4. Participants use tool															
5. Compile results from workshops and usage															
Project Summary II circulated for comments															
6. Produce best practices, issues encountered, INVEST improvements, future actions summaries															
7. Issue Case Studies on specific INVEST criteria of interest.															
Final Report															

Notes:



= Deliverable



= Work Occurring

Goal

- Integrate sustainable transportation processes into ADOT's Intermodal Transportation and Multimodal Planning divisions

Outputs

- Verifiable and documentable contribution to system efficiency, decision making and the agency strategic focus areas

Outcome

- A structured repeatable process that allows ADOT to achieve its economic, social, environmental goals, improve life cycle cost analysis, asset management planning, and infrastructure health reporting

2012

INDIRECT: Sustainable Highways Initiative, INVEST Beta, Strategic Focus Areas

DIRECT: INVEST Beta testing, bq AZ, 5- yr program, what moves you AZ, P2P link, MPO/COG guidebook, system planning, CSS, Standard Specifications road and bridge construction, constructability guidance, rubberized asphalt quiet pavement program

2013

INDIRECT: climate change and extreme weather, sustainable mobility, intelligent transportation and infrastructure, smart livable communities, connected cities/smart grid, public awareness acceptance, Complete Streets, mobility as a service- VOLPE, connected vehicles, autonomous vehicles, Health in Transportation (HinT)

2014

INDIRECT: SEO activity briefings, INVEST LPA outreach, 2014 year end Sustainable Final Report, national speaking, university outreach

DIRECT: MPO/COG Guidance, INVEST PD grant, Excellences Award Program, ADOT case studies, Traffic Safety Programs, LED integration, Winter Storm Mang., Roadside Dev. Vegetation Mang. update

2015

INDIRECT: US DOT O&M activities, FHWA resilience activities, TAMP final rule, INVEST LPA/Tribe outreach, Transportation Sustainability return benefit cost analysis, FHWA preferred based practical design

DIRECT: Complete Transportation Guidebook, INVEST sustainable earthwork case study, Accelerated bridge GRS-IBS, ADOT/USGS partnership, TAMP risk modeling, gap analysis, INVEST O&M grant, Sustainable pavement/materials

Appendix A-4

Case Study: Arizona Department of Transportation INVEST Implementation State of Arizona

Lead Agency: Arizona Department of Transportation

Authors: Steven Olmsted / Emily Lester

INVEST Modules: Project Development



Arizona's transportation infrastructure is spread over 114,000 square miles, operates from sea level to 8,000 feet and withstands temperatures that range from below 0°F to over 120°F. Maintaining optimum health and performance of this infrastructure is critical to Arizona's economic vitality, quality of life, and natural and built environments. The Arizona Department of Transportation (ADOT) recognizes the critical need to plan and prioritize resources more efficiently in order to maintain and operate a robust, economically beneficial transportation network. Through continuous improvement practices, ADOT strives to strategically invest resources to achieve the highest possible return. ADOT also recognizes, in relation to investment and return dynamics, the importance of delivering transportation solutions in a more sustainable manner to achieve economic, social and environmental goals. However, like many transportation agencies around the country, ADOT is in the early stages of injecting sustainable strategies into core planning, operating, design, construction and maintenance activities.

Arizona Asset Universe

140,000 maintenance lane miles
7,800 bridges
1 International border

ADOT Asset Universe

30,000 maintenance lane miles
Linking the 140,000
4,700 bridges
10 maintenance / construction districts
1,500 facility buildings

The Federal Highway Administration (FHWA) Infrastructure Voluntary Evaluation Sustainability Tool (INVEST) Implementation Program has been and continues to be a valuable opportunity for ADOT to acquaint itself with an accessible and comprehensive platform for assessing programs and practices using a holistic sustainability lens. INVEST has already helped ADOT's INVEST working group to validate strategic directions, increase knowledge across core functions, and advance a decision-making framework around sustainability best practices. In 2011 ADOT was

a key participant in the beta-test program prior to the official launch of INVEST Version 1.0, testing the Systems Planning (SP) component. This effort framed a more sustainable road for a number of projects and studies in queue in ADOT's Multimodal Planning Division, and also gave ADOT the chance to contribute to enhancement of the resulting INVEST 1.0 functionality and user interface. Subsequently, ADOT was highly motivated to participate in the first INVEST 1.0 implementation opportunity.

ADOT identified three (3) separate INVEST implementation goals:

- Score projects in ADOT’s 5-year construction program utilizing the Project Development (PD) Module – with a specific focus on statewide roundabout projects.
- Develop an internal ADOT INVEST and ADOT / local government INVEST training framework in order to develop new and novel sustainability operational and partnering opportunities.
- Score multiple projects in the PD Module with an eye on how green infrastructure, low-impact development, multimodal mobility, freight planning and Context Sensitive Solutions (CSS) can be measured and defined, especially as they affect ADOT’s high-level, data-driven policy evaluation models (this goal will be covered in ADOT’s final report).

ADOT’s Construction Program - Statewide Roundabout INVEST Assessment - Goal 1



Roundabouts are becoming a cornerstone of traffic safety and congestion management, so it is critical to have a thorough understanding of how future implementation and development directly impact communities’ social, environmental and economic systems. In Arizona, at both the state and municipal level, roundabouts have become a popular option in traffic intersection design/development/safety. Since INVEST looks to “promote cost

savings and benefits to social, environmental and economic systems,” roundabout projects were identified as an area warranting further exploration and examination utilizing the INVEST scoring criteria. At the project development (PD) level, roundabout planning, design, and construction share multiple INVEST elements such as quality construction, designing pavement for longevity, life cycle concepts, recycled materials, stormwater and air quality mitigation benefits, local community enhancement and improved safety. Roundabouts are unique projects in that impacts, on the aforementioned cost savings and benefits, are quantifiable and would be excellent entry points for ADOT to utilize INVEST. In addition, roundabouts fall within the basic and extended project types and exist in both urban and rural locations which easily align with the INVEST project development module.

Over ten years ago the initial ADOT roundabout design path was formalized in ADOT Final Report 545. The report stated, “Modern roundabouts have been widely used in many countries for many years and during the past decade have begun to gain acceptance in the United States because they provide an effective means of traffic control. Roundabouts can offer a number of benefits over traditional signal or stop controlled intersections through their safety performance, reduced operation and maintenance costs, and operational enhancements.” Even ten years ago this description showed just how sustainably contributory the roundabout design was thought to be.

See More - ROUNDABOUTS: AN ARIZONA [CASE STUDY](#) AND DESIGN GUIDELINES July 2003 Report 545

Roundabouts have seen increased application across the United States as one of the Federal Highway Administration’s nine proven safety countermeasures.

INVEST Roundabout Scoring Exercise – Approaching Roundabouts utilizing INVEST

A blue rectangular box with a gradient. At the top, it says "INVEST Score" in white. In the center, the number "41" is displayed in a large, white, sans-serif font. At the bottom, it says "Rating: Silver" in white.

The intersection of State Route (SR) 89 and Perkinsville Road is located in Chino Valley, in Yavapai County, Arizona. SR 89 is the only state highway connecting Prescott, Prescott Valley and Chino Valley and serves as a key alternative route to Interstate 17 (I-17) and ultimately Interstate 40 (I-40). ADOT proposed improvements to this intersection would include the introduction of a roundabout (See Figure 1 below). According to the final project assessment, “the goal of this project is to enhance the overall safety of the existing signalized intersection with a solution that best fits

the location based on the existing and future geometric, environmental, traffic, drainage and local stakeholder design considerations.” Agency cooperation included ADOT, FHWA, Central Yavapai Metropolitan Planning Organization (CYMPO) and the Town of Chino Valley. The characteristics of this \$3 million project were well suited to score through INVEST. Additionally, it presented a great opportunity to build a preliminary network of partners interested in conducting a sustainability assessment of ADOT’s roundabout program.

To appropriately blend ADOT’s roundabout design criteria, and the parameters in which roundabouts would fit inside the INVEST tool, the project team started with these nine (9) objectives;

- Apply the project goals the Town, the public, the regional planning organization, and the assigned ADOT district developed in connection with this project.
- Identify how the roundabout would promote and enhance growth given the traffic needs of an economically developing area.
- Design the basic dimensions of the roundabout while fitting within the available right-of-way.
- Recognize the variables involved in construction of this roundabout and then identify the related sustainability criteria.
- Consider the impact of commercial truck thru traffic, local commercial truck traffic and commercial business at the intersection that utilized trucks in their operations.
- Integrate the overall FHWA sustainable highway’s goals and ADOT’s INVEST project.
- Stress implementation of sustainable practices and gain project champion’s consensus.
- Make wise investment decisions with limited resources.
- Encourage changes in professional practice and go beyond compliance.

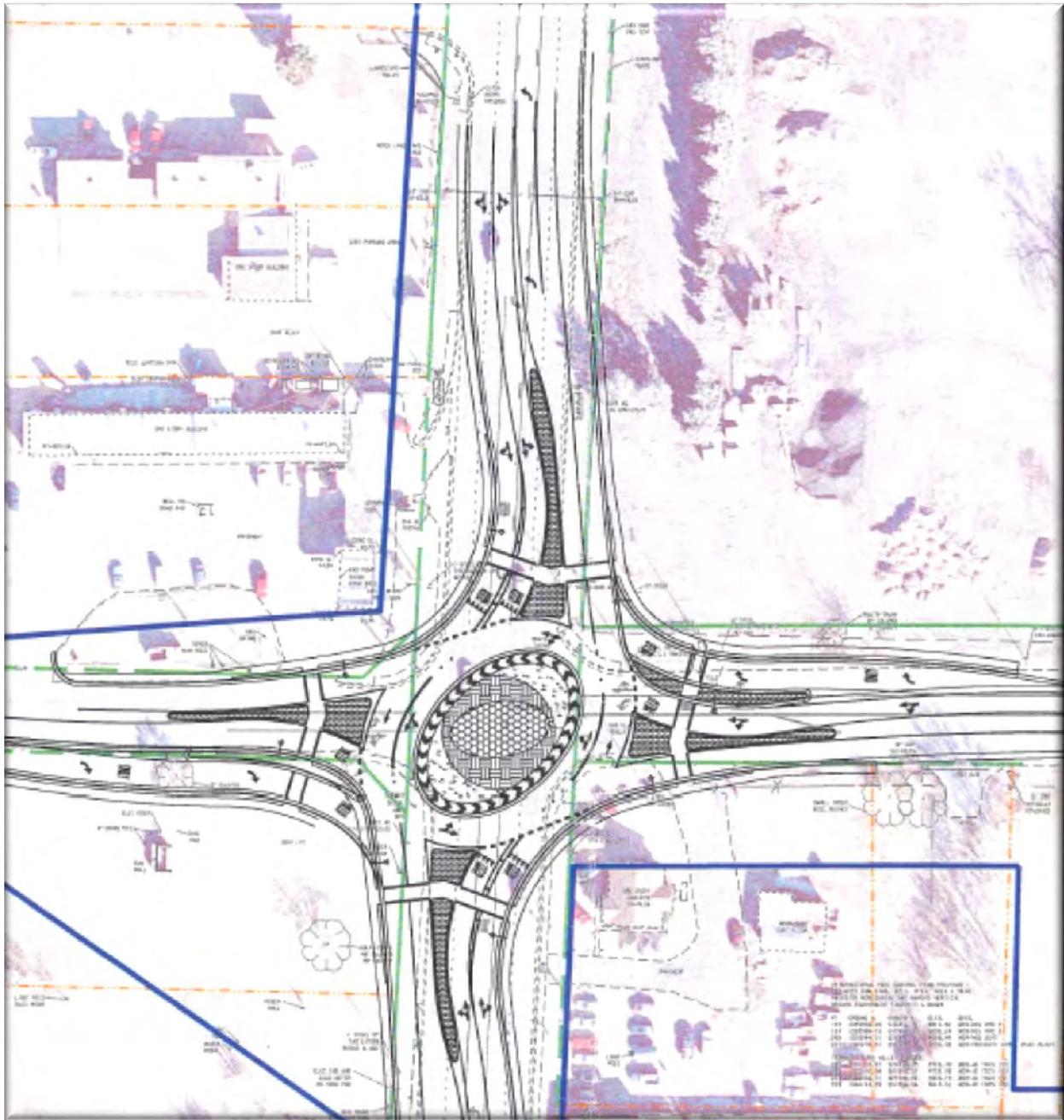


Figure 1. State Route 89 and Perkinsville Road Chino Valley, Arizona

Sustainability Linkage

One of the more engaging conversations that arose out of the SR 89 Perkinsville Road INVEST scoring effort surrounded freight mobility, sustainability linkages and the INVEST PD-13: Freight Mobility criteria. ADOT is well aware, especially in light of the Move Ahead for Progress (MAP-21) freight planning requirements, that enhancing freight mobility supports environmental and economic sustainability principles. ADOT’s project goals aligned nicely with the INVEST PD-13 scoring goals by providing features that make freight transportation more efficient, thereby reducing fuel consumption,

decreasing emissions and reducing noise pollution. According to FHWA's, *Advancing a Sustainable Highway System: Highlights of FHWA Sustainability Activities*, issued in June of 2014 and prepared by the Center for Transportation Policy and Planning (Volpe);

MAP-21 requires reporting on performance metrics and includes freight-specific performance measures. Performance measures help identify and measure the effectiveness of needed transportation improvements. They also serve as indicators of economic health and traffic congestion. The Office of Freight Management and Operations has completed various performance measurement-related initiatives. Many of these efforts have focused on travel times in key truck corridors and cross-border travel times.

Specific to the SR 89 Perkinsville roundabout project, the development project looked to assist with rush hour traffic queuing, especially as it relates to commercial truck traffic, which may be utilizing SR 89 as an I-17 alternate. In addition, localized agriculture commercial truck traffic (see figure 2 below) was a major consideration as there was such an operation at the southeast corner of the roundabout. Unique project design considerations included, commercial truck traffic context sensitive solutions, commercial truck ingress and egress, truck apron width and commercial truck traffic continuous flow considerations. The INVEST scoring exercise was an additional platform in which all these issues could be scored, reviewed and assessed. ADOT clearly benefited from using INVEST as a simple and easy format to determine sustainable linkages and introduce the sustainability return on investment concept.

INVEST PD-13: Freight Mobility

Goal

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Sustainability Linkage

Enhancing freight mobility supports the environmental and economic sustainability principles by providing features that make freight transportation more efficient, thereby reducing fuel consumption, decreasing emissions, and reducing noise pollution.

Scoring Requirements

Facilities installed for this requirement shall be consistent with the need, purpose, and appropriateness for freight mobility within the project footprint.

PD-13: Freight Mobility Score – 7 (The Maximum Available)

2 Points – Safety improvements specific to freight

2 Points – Design and construction adjustments specific to freight

3 Points – Construct dedicated truck delivery ingress and egress

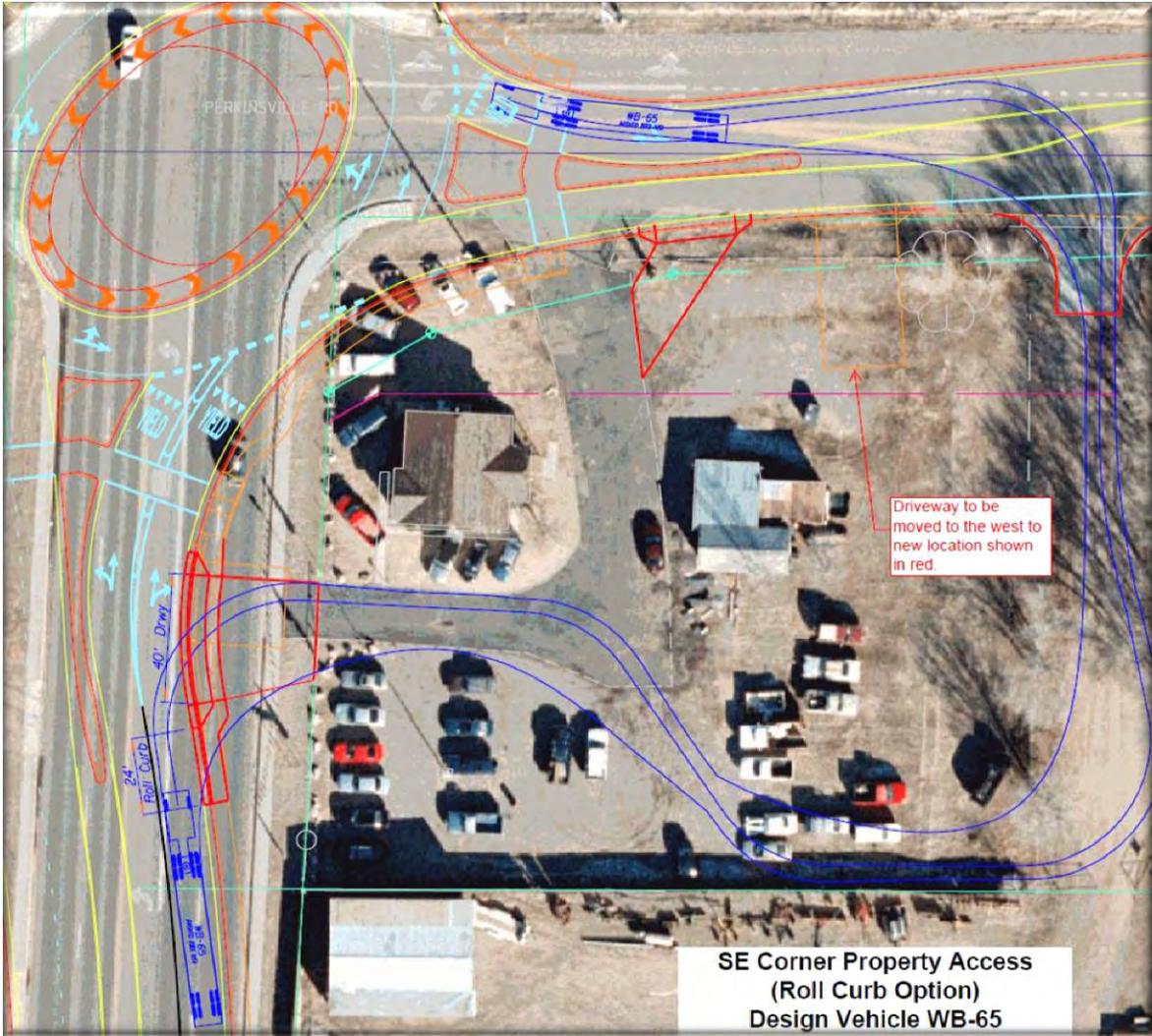


Figure 2. Freight Considerations - State Route 89 and Perkinsville Road Chino Valley, Arizona

ADOT / Local Government INVEST Training and Scoring - Goal 2

City of Sedona, Arizona

As part of ADOT’s INVEST effort an addition outreach and training element to local governments was incorporated. ADOT identified this local government participation as a great partnering tool, especially for those that had transportation projects administered by ADOT. This is noteworthy, since a portion of ADOT’s highway system passes through many of our states local governments. ADOT was conscious that within the Arizona highway system there exist lane miles that act as the sole main arterial access to many of the remote town in the state.

The City of Sedona, Arizona INVEST training was the first of several outreach and training efforts scheduled by ADOT. The training was an opportunity to develop and refine a local government training framework that would be transportable to other cities around the state. The City of Sedona, Arizona was very amenable to using INVEST to examine one of the largest ADOT / Sedona roadway projects the

two entities had undertaken in recent years – the design, development and construction of seven roundabouts and the further mainline roadway redevelopment on State Routes 179 and 89A (four of the roundabouts can be found in Figure. 3 below).

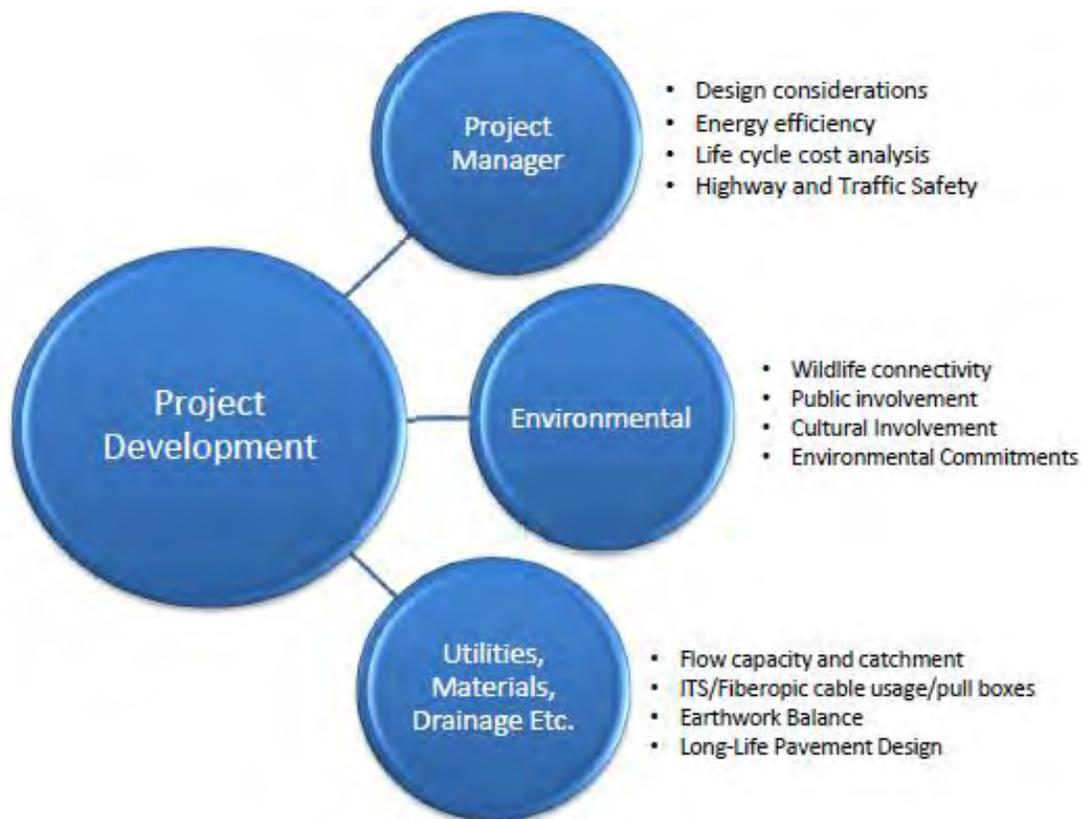
Thirdly, the training process, subsequent support efforts and the City’s Public Works Department that houses their transportation efforts, found the INVEST experience went so well and aligned with the City’s planning goals that the City will be conducting and submitting their own INVEST case study related to this defining project.



Figure 3. City of Sedona, Arizona - SR 179 and SR 89A Aerial

INVEST as a collaboration tool

During ADOT's first internal INVEST training, two person teams were assigned to work together. The teams were comprised of one civil engineer from ADOT's Statewide Project Management team and one environmental planner from ADOT's Environmental Planning Group. Individuals with a civil engineering, analytical background were coupled with those whom possessed an environmental, rules oriented perspective. It quickly became apparent to the training team a new and novel collaboration process had materialized. This collaboration developed a unique perspective centered on applying the tool into the project development process, while simultaneously benefiting from the extensive real time scorer opinions. It was determined that INVEST could be scaled to play a key role in a more "cradle to grave" scoring process - A collaborative approach in which a scoring project is handed off between planning, project and maintenance personnel to score. To briefly describe, INVEST's involvement would begin in the early planning and design phases, seamlessly move into environmental, materials and other technical studies, and conclude after construction and mitigation are complete. With multiple disciplines engaged throughout the INVEST process, this will and should ensure a more comprehensive and efficient use of the tool. A basic diagram (See diagram below) has been provided showing examples of how some of the PD criteria were further categorized for internal ADOT disciplines analysis.



ADOT Collaboration Approach

INVEST could not only potentially lead to a more substantial, sustainable design, but also aid in furthering lines of communication among members of ADOT. It sparked new natures of discussion which may ultimately lead to all individuals involved learning more about various aspects of the development process. This type of learning opportunity is and will continue to be essential in ensuring project delivery in a consistent and timely manner. At the same time, this collaboration process also identified gaps in scoring smaller, less extensive projects such as simple pavement preservation tasks. Such projects have fewer examples of comprehensive documentation and outside agency or public involvement. This created some challenges in thoroughly being able to apply the tool to its utmost degree. Further development of the scoring criteria and how those questions are sequenced in version 1.1 should remedy many of these gaps and allow for a more flexible applicability. In conclusion, INVEST was well received during ADOT's internal INVEST training. It was irrefutably acknowledged as a beneficial tool which may continue to broaden lines of discussion, facilitate essential communication and lead to further innovation of design.

Benefits Beyond ADOT's Initial Proposal



This current INVEST effort has spurred ADOT to participate in the second round of implementation by proceeding with a comprehensive review of the INVEST Operations and Maintenance (OM) module and create an even wider level of participation in transportation sustainability. The INVEST OM Module opportunity will further offer ADOT a comprehensive, balanced guidepost to educate across various disciplines the fundamentals of sustainability. Additional case studies

will be developed to illustrate different ways in which linkages are made between the different business management, asset, maintenance, operations, financial, environmental, and risk functions and their roles and perspectives for sustainability at ADOT to provide a framework for implementing new ideas.

Key Outcomes Using INVEST

- Integration of sustainability tools into ADOT decision making
- Identification of functional gaps and investigate the boundaries of inherently non-quantifiable problems – i.e. sustainability boundaries
- Understand that sustainability triple bottom line (TBL) is measured over years / decades
- Began the process of integrating ADOT's stakeholders and partners into the transportation sustainability conversation
- Contribute to the national conversation

Appendix B-2

ADOT INVEST PD Project Scores

50 Projects

518 Pages



I-40- Willow Ranch TI- Markham Wash - Apr 7, 2015

Module: Project Development

Scorecard: Paving

Points: 17

Achievement Level: Bronze

Criteria	Points
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PD-02 Lifecycle Cost Analyses 0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety 4/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

- 0 points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

5/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

4

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

1

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



RT 73 Fort Apache to Canyon Day 3\ " AC - Apr 8, 2015

Module: Project Development

Scorecard: Paving

Points: 21

Achievement Level: Bronze

Criteria	Points
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PD-02 Lifecycle Cost Analyses 1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety 2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

The project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

No

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

2/6

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of

eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

1

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

5/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

2

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

2 points

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

Diverted at least 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



ADOT SR 89 Road 4 North Roundabout - Chino Valley - Dec 11, 2013

Module: Project Development

Scorecard: Rural Basic

Points: 28

Achievement Level: Not Rated

Criteria Points

PD-02 Lifecycle Cost Analyses 2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

LCCA completed manually during the alternatives phase. Pavement structures limited to roundabout geometry footprint. Stormwater LCCA conducted and superseded the minimum requirement for this project. Separate hydrology investigation conducted in connection with an Area Drainage Master Plan Study. In addition ADOT is guided by the development of the Statewide Stormwater Management Plan. Developed

Next Actions

Will verify how closely the ADOT process follows FHWA technical pavement guidance? Suggest putting a saved button next to the Upload area. No on point 3 - no major structures. How come no Federal specific guidance referencing stormwater? NCHRP Report 734 Hydraulic Loss Coefficients for Culverts?

Files

statewide-stormwater-management-plan, hydrology-report-3-25-11, app-sr-89-road-4-north-pa-hydrology-memo-9-7-12

PD-03 Context Sensitive Project Development 5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

According to the FPA, the alternatives resolution phase determined that a modern roundabout with a unique elliptical configuration to minimize impacts to active businesses. This included a commensurate traffic management plan and geometric emphasis to the major N-S traffic patterns. Considerable additional scope items were considered; high speed approach, freight use and access, ped x-ing and lighting. The City of Chino Valley was very integrated into this process. Along with CYMPO.

Next Actions

Research nchrp 480a and 642 to review ADOT process against national framework.

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

Files

nchrp-rpt-642, nchrp-rpt-480a

PD-04 Highway and Traffic Safety

9/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Modeling was done to a 2035 traffic demand model. In addition; CYMPO Regional Travel Demand Model were reviewed (models to 2030), Town of Chino Valley Small Area Transportation Study was used. Together these two data sets allowed a SATS model revised to 2030 to materialize. In addition, RODEL software was used to develop the Roundabout Operational Analysis (2035).

Next Actions

Review with Project Management Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series)

Files

hsmp-1

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

Review what level of ADOT projects would allow for such a component to be added.

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

OES is developing environmental compliance tracking system. Do not believe it tracks during development.

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

The CSS efforts put the roundabout footprint inside existing ROW with minimal new ROW acquisition.

Next Actions

PD-08 Stormwater

3/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

1 Point

Scoring Notes

The TI handles drainage for two basins. HEC-1 hydrologic modeling platform was used to simulate regional conditions. In 2011 an Area Drainage Master Plan was completed for 70 square miles. Due to drainage issues the grassy swales and roundabout geometrics were beefed up to handle standard issues and the 25-yr event (223 cfs) and 100-yr (309 cfs).

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

2 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

No

Scoring Notes

No eco-issues

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

No

Scoring Notes

The historic alignment of SR 89 is designated as I-3:10 (ASM). According to the Interim Procedures for the Treatment of Historic Roadways (November 5, 2002), SR 89 is recognized as part of the Historic State Highways System, considered eligible for listing on the National Register of Historic Places by FHWA, ADOT, and SHPO under Criterion D. The roundabout would have minimal effect on the overall design elements of the road or on its setting or feeling. Therefore, the FHWA has determined that a finding of "no adverse effect" is appropriate for this project.

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?

1 Point

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

ADOT Roadside Development and the SWPPP dictate ADOT's level of development on this topic.

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Need to verify PS&E as to the warranty parameters.

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

Yes

Scoring Notes

Have to check PS&E to verify QPACs.

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills

.....



Roosevelt- Young Culvert Extension - Feb 3, 2014

Module: Project Development

Scorecard: Rural Basic

Points: 26

Achievement Level: Not Rated

Criteria	Points
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PD-02 Lifecycle Cost Analyses

0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

No

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development

3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction

engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

0/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes**Next Actions**

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes**Next Actions**

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

3 Points

Scoring Notes**Next Actions**

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

3 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

3 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

No

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

2

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

3

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

2

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Yes

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes**Next Actions**

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes**Next Actions**

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes**Next Actions**

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills



SR 89 Perkinsville Intersection - Feb 4, 2014

Module: Project Development

Scorecard: Rural Basic

Points: 32

Achievement Level: Bronze

Criteria	Points
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?No</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?No</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?Yes</p> <p>Scoring Notes</p> <p>Next Actions</p>	1/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?Yes</p> <p>Scoring Notes</p> <p>Next Actions</p> <p>Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes</p>	5/5

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?Yes
Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?No

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.None

Scoring Notes

Next Actions

PD-08 Stormwater

6/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.2 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.2 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?No
Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?No

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities 0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency 0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation 3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials 3/8

Reduce lifecycle impacts from extraction and production of virgin materials by

recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.3

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.No

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

5/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?Yes

Was Pavement Design Completed In Accordance With A Design Procedure That Is Formally Recognized, Adopted, And Documented By The Project Owner?Yes

Scoring Notes

Next Actions

PD-23 **Reduced Energy and Emissions in Pavement Materials** 0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?No

Scoring Notes

Next Actions

PD-24 **Contractor Warranty** 0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 **Construction Environmental Training** 0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?No

Scoring Notes

Next Actions

PD-26 **Construction Equipment Emission Reduction** 0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.No

Scoring Notes

Next Actions

PD-28 **Construction Quality Control Plan** 2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link

payment and performance of the constructed products?Yes

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?No, or diverted less than 50 percent of the construction waste from landfills



I-10 rock clearing - Apr 2, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 17

Achievement Level: Not Rated

Criteria

Points

PD-02 Lifecycle Cost Analyses

1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

3/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0

points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/3

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are

awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

2/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

1

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/8

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly

trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

Diverted at least 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



I-40- Cross Mt - Jolly Rd - Apr 7, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 38

Achievement Level: Silver

Criteria

Points

PD-02 Lifecycle Cost Analyses

2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

Yes

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0

points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0

points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0

points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety

effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0

points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table

PD-19.2.A. - 0 points

No.

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Kingman Wash TI - Apr 7, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 29

Achievement Level: Bronze

Criteria	Points
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PD-02 Lifecycle Cost Analyses	1/3
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Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development	5/5
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Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points
 Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points
 Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points
 Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points
 Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points
 Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points
 Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points
 Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety

effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

3/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

3

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/8

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table

PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?



I-40- Walnut Canyon - Twin Arrows - Apr 7, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 55

Achievement Level: Gold

Criteria

Points

PD-02 Lifecycle Cost Analyses

3/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

Yes

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety

effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1c Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

2/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

Yes

PD-16.2P Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves? - 0 points

Yes

PD-16.1 Were efforts made to avoid or minimize impacts, or enhance features, of the scenic, natural, and/or recreational qualities? - 0 points

PD-16.1c Measures were taken to specifically avoid impacts to the scenic, natural, or recreational qualities to the features from PD-16.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

4

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

1

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

3

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Inlaid Pavement Marking - Apr 7, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 35

Achievement Level: Bronze

Criteria	Points
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>No</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	1/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points</p> <p>Yes</p> <p>PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points</p> <p>Yes</p>	5/5

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points
Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points
Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points
Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points
Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points
Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points
Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points
Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety

effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

No

Scoring Notes - 0 points

not applicable.... pavement structure and stormwater were not covered due to the minimal scope of work

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1b Measures have been taken to specifically avoid impacts to the features from PD-15.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

2/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

Yes

PD-16.2P Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves? - 0 points

Yes

PD-16.1 Were efforts made to avoid or minimize impacts, or enhance features, of the scenic, natural, and/or recreational qualities? - 0 points

PD-16.1c Measures were taken to specifically avoid impacts to the scenic, natural, or recreational qualities to the features from PD-16.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

Diverted at least 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



I-8 Bender Wash Embankment - Apr 8, 2015

Module: Project Development

Scorecard: Rural Basic

Points: 18

Achievement Level: Not Rated

Criteria

Points

PD-02 Lifecycle Cost Analyses

1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

2/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

No

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

1/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

The project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0

points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

4/5

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points**PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.** - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials 0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design 0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

Diverted at least 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



SR 89 AND KIRKLAND JUNCTION - Apr 2, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 17

Achievement Level: Not Rated

Criteria

Points

PD-01 Economic Analyses

0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

No

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses

0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

No

No

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

3/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

2/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program

(NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1a An effort has been made to minimize the "adverse effects" to the features from PD-15.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are

awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods

to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? -

0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



US Port of Entry to SR 195 - Dec 15, 2014

Module: Project Development

Scorecard: Rural Extended

Points: 30

Achievement Level: Not Rated

Criteria

Points

PD-01 **Economic Analyses**

5/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

Yes

Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements?

Yes

Scoring Notes

This project is included in the 2011-2016 Yuma Metropolitan Planning Organization (YMPO) 5-Year Regional Transportation Improvement Program (TIP) as TIP #SAN-12-08C. The construction will be funded through Coordinated Border Infrastructure (CBI) funding, local City of San Luis match funds equivalent to 5.7% of the total project cost, as well as other local funds.

Next Actions

PD-02 **Lifecycle Cost Analyses**

2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

Drainage ditches will be replaced with new V-ditches that will accommodate pavement drainage from new and existing pavement.

Next Actions

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Within the Yuma Regional Transportation Plan (RTP), Avenue E is planned to become a limited access parkway connecting San Luis, Somerton, and Yuma. The extension of Avenue E north of SR 195 is currently in the scoping/DCR stage. In recent years, Yuma County and the City of San Luis have experienced above normal population growth. Traffic demand on Avenue E is expected to grow as the commercial truck activity at the POE increases and the adjacent properties develop.

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

3/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

Scoring Notes

Next Actions

PD-08 Stormwater

2/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

1 Point

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

No

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

1 Point

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Scoring Notes

Next Actions

PD-13 Freight Mobility

7/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

7 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

No

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

1/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

1

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?

No

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills



Us 89 Antelope Hills to US 160 - Mar 13, 2014

Module: Project Development

Scorecard: Rural Extended

Points: 39

Achievement Level: Bronze

Criteria

Points

PD-01 Economic Analyses

0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses

1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

Yes

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

No

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development

3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

4/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

5/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

Yes

Does the environmental tracking system have a formal mechanism to communicate commitments from transportation planning through design, construction and maintenance?

Yes

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

Yes

Scoring Notes

Next Actions

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

1 Point

Scoring Notes

Next Actions

PD-08 Stormwater

8/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

2 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

3 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

3 Points

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.

2

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

1/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

At least 1 application in any category

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

1/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

Yes

Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves?

Yes

Were efforts made to minimize impacts, avoid impacts, or enhance features of the scenic, natural, and/or recreational qualities?

An effort has been made to minimize "adverse effects" to the scenic, natural, or recreational qualities.

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

1/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

1

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

Yes

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

Warning: Unknown: Your script possibly relies on a session side-effect which existed until PHP 4.2.3. Please be advised that the session extension does not consider global variables as a source of data, unless register_globals is enabled. You can disable this functionality and this warning by setting session.bug_compat_42 or session.bug_compat_warn to off, respectively in **Unknown** on line 0



SR 260 AT INDUSTRIAL DRIVE - Mar 30, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 22

Achievement Level: Not Rated

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 pointsNo</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 pointsNo</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	0/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 pointsNo</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 pointsNo</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 pointsNo</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	0/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 pointsYes</p> <p>PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and</p>	3/5

others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 pointsNo

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 pointsNo

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 pointsYes

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

6/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 pointsInteractions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 pointsNo

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 pointsYes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 pointsYes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 pointsYes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 pointsNo

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 pointsYes

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 pointsNo

PD-05.1.A? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance

with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 pointsNo

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 pointsNone

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points1 Point

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points2 Points

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 pointsNo

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation

and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 pointsYes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 pointsNo

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 pointsNo

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 pointsYes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points3 Points

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 pointsI understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 pointsNo

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 pointsNo

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 pointsNo

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 pointsNo

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 pointsNo

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications

meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 pointsI understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 pointsNo

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 pointsNo

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 pointsNo

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 pointsYes

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report

(attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Tanner Wash Bridge Replace - Mar 30, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 26

Achievement Level: Not Rated

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 pointsYes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 pointsNo</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	2/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 pointsNo</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 pointsNo</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 pointsNo</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	0/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 pointsYes</p> <p>PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and</p>	2/5

others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 pointsNo

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 pointsNo

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 pointsThe project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 pointsNo

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 pointsYes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 pointsYes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 pointsYes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 pointsYes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 pointsYes

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 pointsNo

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 pointsNone

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

2/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points1 Point

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 pointsYes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points2

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications

meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 pointsNo

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 pointsNo

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 pointsNo

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 pointsYes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points3 Points

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 pointsI understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 pointsNo

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 pointsNo

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points2

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 pointsNo

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points No

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points Yes

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the

pavement structure? - 0 points Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points Yes

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Cottonwood Bridge Replace - Apr 13, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 28

Achievement Level: Not Rated

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	2/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>No</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>No</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>No</p>	0/3

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

2/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

No

No

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

The project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance

monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

2/5

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/5

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/3

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations

and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 **Recycle Materials**

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 **Earthwork Balance**

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? -

0 points

Yes

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



SR 260 Thousand Trails - Apr 3, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 46

Achievement Level: Silver

Criteria

Points

PD-01 Economic Analyses

2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

Yes

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses

2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

6/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically

proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

- 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and

related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

1/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

1

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

5/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

5 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 2 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed

and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

Yes

PD-22.1 Was Pavement Design Completed In Accordance With A Design Procedure That Is Formally Recognized, Adopted, And Documented By The Project Owner? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Fotuna Wash - Apr 3, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 49

Achievement Level: Silver

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points No</p> <p>Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	2/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points Yes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points Yes</p> <p>Scoring Notes - 0 points</p>	3/3

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically

proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and

related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

3/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

Yes

PD-09.1 Were methods used to minimize impacts to ecological connectivity? Use Table PD-09.1.A to determine points. - 0 points

3

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1a An effort has been made to minimize the "adverse effects" to the features from PD-15.1P.

Scoring Notes - 0 points

Existing alignment of US 95 is considered historic, was documented

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy

efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

1

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 **Recycle Materials**

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the

pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Statewide Weigh in Motion Feasibility Study - Apr 8, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 37

Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	2/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>No</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>No</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p>	0/3

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

No

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance

monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/3

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

7/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

7 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

4/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 4 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1b Measures have been taken to specifically avoid impacts to the features from PD-15.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

1/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

Yes

PD-16.2P Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves? - 0 points

Yes

PD-16.1 Were efforts made to avoid or minimize impacts, or enhance features, of the scenic, natural, and/or recreational qualities? - 0 points

PD-16.1a An effort has been made to minimize "adverse effects" to the scenic, natural, or recreational qualities to the features from PD-16.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

4/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting

and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

Yes

PD-17.2 Points are awarded based on the percentage of reduced power use. Based on Table PD-17.2.A, how many points did the project earn? - 0 points

2 Points

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

0/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are

awarded per Table PD-19.1.A. - 0 points

1

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

1

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/3

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? -

0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Statewide Weigh in Motion Feasibility Study - Apr 13, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 40

Achievement Level: Bronze

Criteria	Points
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PD-01 Economic Analyses 5/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

Yes

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses 0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

No

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

No

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-

05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance

monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/3

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

7/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

7 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

4/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 4 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1b Measures have been taken to specifically avoid impacts to the features from PD-15.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

1/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

Yes

PD-16.2P Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves? - 0 points

Yes

PD-16.1 Were efforts made to avoid or minimize impacts, or enhance features, of the scenic, natural, and/or recreational qualities? - 0 points

PD-16.1a An effort has been made to minimize "adverse effects" to the scenic, natural, or recreational qualities to the features from PD-16.1P.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

4/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting

and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

Yes

PD-17.2 Points are awarded based on the percentage of reduced power use. Based on Table PD-17.2.A, how many points did the project earn? - 0 points

2 Points

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

0/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are

awarded per Table PD-19.1.A. - 0 points

1

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

1

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance 3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design 0/3

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials 0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



SR 191 MP 436 - Chinle - Apr 13, 2015

Module: Project Development

Scorecard: Rural Extended

Points: 37

Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	<p>2/5</p>
<hr/> <p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>Yes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>Yes</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p>	<p>3/3</p>

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

The project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a

quantitative and statistically reliable process? - 0 points

No

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to

the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

8/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0

points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the

NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

1

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are

awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction 2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan 5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management 2/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? -

0 points

Yes

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

Diverted at least 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



US 89 & Haul Road - Dec 12, 2014

Module: Project Development

Scorecard: Urban Basic

Points: 21

Achievement Level: Not Rated

Criteria	Points
PD-02 Lifecycle Cost Analyses	1/3
Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.	
Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?	
No	
Was an LCCA performed for all stormwater infrastructure alternatives considered?	
No	
Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?	
Yes	

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development 5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction

engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

0/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

No

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

No

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-08 Stormwater

6/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

3 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

1 Point

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

Yes

Has An Effort Been Made To Minimize Impacts, Avoid Impacts, Or Enhance Features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?

1 Point

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

1 Point

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

TABLE 1. PAVEMENT PRESERVATION ACTIVITIES AND POINTS AWARDED PER TABLE 1. TABLE 2. PAVEMENT MATERIALS NEEDED REDUCED. TABLE 3. BRIDGE PRESERVATION ACTIVITIES AND POINTS AWARDED PER TABLE 3. TABLE 4. REUSE OF EXISTING PAVEMENTS, STRUCTURES, OR STRUCTURAL ELEMENTS FOR A NEW USE.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

TABLE 1. PAVEMENT PRESERVATION ACTIVITIES AND POINTS AWARDED PER TABLE 1.

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

1/3

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

1/3



Switzer Canyon Drive at Turquoise Drive - Dec 15, 2014

Module: Project Development

Scorecard: Urban Basic

Points: 22

Achievement Level: Not Rated

Criteria	Points
PD-02 Lifecycle Cost Analyses	2/3
Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.	
Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?	
No	
Was an LCCA performed for all stormwater infrastructure alternatives considered?	
Yes	
Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?	
Yes	

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development	5/5
Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.	

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction

engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

8/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-08 Stormwater

0/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

No

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

No

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

Yes, features in the design and construction of new bicycle facilities that enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

0/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

No

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

1/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

1

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

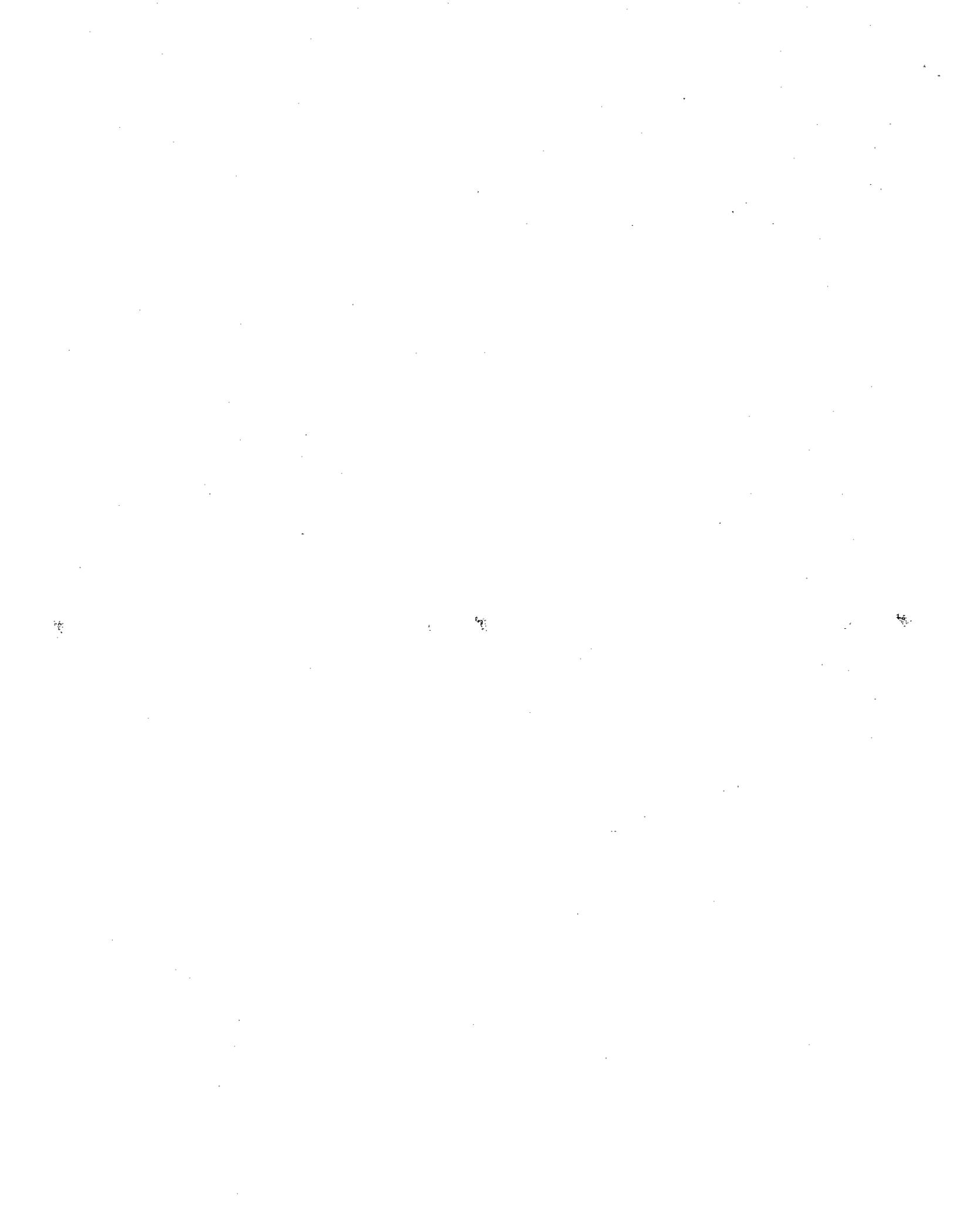
Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills





Hayden Northsite Roundabout - Dec 15, 2014

Module: Project Development

Scorecard: Urban Basic

Points: 35

Achievement Level: Bronze

Criteria	Points
PD-02 Lifecycle Cost Analyses	2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development	5/5
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Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction

engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-08 Stormwater

3/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

2 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

1 Point

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

No

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

1/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

Yes, new features were implemented or existing features were improved on existing bicycle that addressed safety and connectivity.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

At least 1 application in 2 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

1 Point

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

1

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

1

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Yes

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

2

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements,

including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/3

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

1

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

Yes

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



Mustang Transit Center - Dec 17, 2014

Module: Project Development

Scorecard: Urban Basic

Points: 26

Achievement Level: Not Rated

Criteria Points

PD-02 Lifecycle Cost Analyses 1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development 5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction

engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

5/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

5/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

5 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

At least 1 application in 2 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

No

Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills



SR 79 AT SR 79B – INTERSECTION RECONFIGURATION - Mar 30, 2015

Module: Project Development

Scorecard: Urban Basic

Points: 34

Achievement Level: Bronze

Criteria	Points
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 pointsNo</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 pointsYes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 pointsNo</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	1/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 pointsYes</p> <p>PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 pointsYes</p> <p>PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 pointsYes</p> <p>PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 pointsYes</p> <p>Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	5/5

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points Yes

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points Yes

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 pointsNone

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

3/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points1 Point

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points1 Point

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 pointsPD-10.1b Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy

vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 pointsNo

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 pointsYes

PD-15.1 Has An Effort Been Made To Minimize Impacts, Avoid Impacts, Or Enhance Features? - 0 pointsPD-15.1b Measures have been taken to specifically avoid impacts to the features from PD-15.1P.

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 pointsYes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 pointsYes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 pointsNo

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 pointsNo

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points 3 Points

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points No

Scoring Notes - 0 points Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place

recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 pointsNo
PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 pointsNo

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 pointsYes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 pointsYes

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 pointsNo

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 pointsYes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 pointsNo

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 pointsNo

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 pointsNo, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 pointsTrack your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 pointsRecord future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



DMS installation - Apr 3, 2015

Module: Project Development

Scorecard: Urban Basic

Points: 22

Achievement Level: Not Rated

Criteria

Points

PD-02 Lifecycle Cost Analyses

0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

No

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points
Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points
Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

4/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points
Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points
Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points
Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points
No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points
No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness

of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

0/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

No

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

No

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

5/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 5 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



SR 303 Thomas Rd- Camelback Rd - Apr 7, 2015

Module: Project Development

Scorecard: Urban Basic

Points: 34

Achievement Level: Bronze

Criteria	Points
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PD-02 Lifecycle Cost Analyses 0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development 5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points
Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points
Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points
No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points
No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points
No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from

Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

strictly landscaping associated to a widening project.... previous widening project addressed these concerns

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 2 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

Yes

PD-17.2 Points are awarded based on the percentage of reduced power use. Based on Table PD-17.2.A, how many points did the project earn? - 0 points

1 Point

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



US60 GRAND AVE - Mar 17, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 16

Achievement Level: Not Rated

Criteria Points

PD-01 Economic Analyses 0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

No

Scoring Notes

based on the "IPA" April,2013

Next Actions

PD-02 Lifecycle Cost Analyses 0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development 5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

1/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-08 Stormwater

1/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

No

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

No

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

1 Point

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

No

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

IPA - section 1.3.12 signal controller for preemption by BNSF

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?

None

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

1/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

1

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?

No

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

Scoring Notes

Next Actions

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

Yes

PD-29 Construction Waste Management

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills



us 60 grand ave - Jun 24, 2014

Module: Project Development
Scorecard: Urban Extended
Points: 47
Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>0/5</p>
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?No</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>1/3</p>
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an</p>	<p>2/5</p>

equivalent process?No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

4/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

5/5

Ensure that environmental commitments made by the project are completed and

documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?Yes

Does the environmental tracking system have a formal mechanism to communicate commitments from transportation planning through design, construction and maintenance?Yes

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?Yes

Scoring Notes

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.1 Point

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.1 Point

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity? Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

1/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment? Yes, new features were implemented or existing features were improved on existing bicycle that addressed safety and connectivity.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points. 3 Points

Scoring Notes

Next Actions

PD-13 Freight Mobility

1/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points. 1 Point

Scoring Notes

Next Actions

PD-14 ITS for System Operations

3/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and

social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.At least 1 application in 3 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes
Has an effort been made to minimize impacts, avoid impacts, or enhance features?An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?Yes

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species

only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes
Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

4/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.2

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.1

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.1

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to

overall score.

PD-21 Earthwork Balance

1/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

1/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?No, or diverted less than 50 percent of the construction waste from landfills



US60, Grande Ave - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 25

Achievement Level: Not Rated

Criteria	Points
PD-01 Economic Analyses	0/5
Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...	

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses	0/3
Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.	

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

No

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development	4/5
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Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

No

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

No

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

None

Scoring Notes

Next Actions

PD-08 Stormwater

0/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

No

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

No

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

1/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, new features were implemented or existing features were improved that addressed safety, comfort, and connectivity.

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

4/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

At least 1 application in 4 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?

None

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

1

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

1

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?

No

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

1/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills

Warning: Unknown: Your script possibly relies on a session side-effect which existed until PHP 4.2.3. Please be advised that the session extension does not consider global variables as a source of data, unless register_globals is enabled. You can disable this functionality and this warning by setting session.bug_compat_42 or session.bug_compat_warn to off, respectively in **Unknown** on line **0**



Roosevelt- Young Culvert Extension - Apr 3, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 30

Achievement Level: Not Rated

Criteria	Points
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PD-01 Economic Analyses	0/5
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Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

No

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

Scoring Notes - 0 points

Next Actions - 0 points

PD-02 Lifecycle Cost Analyses	0/3
--------------------------------------	-----

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

No

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

No

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-03 Context Sensitive Project Development

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

No

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Next Actions - 0 points

PD-04 Highway and Traffic Safety

0/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

The project relied solely on published design and operational performance standards during the project development process.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

No

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-05 Educational Outreach 2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

Yes

Scoring Notes - 0 points

Next Actions - 0 points

PD-06 Tracking Environmental Commitments 0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-07 Habitat Restoration 1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Next Actions - 0 points

PD-08 Stormwater 9/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

3 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

3 Points

Scoring Notes - 0 points

Next Actions - 0 points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine

points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy

efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Next Actions - 0 points

PD-19 Reduce and Reuse Materials

7/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

2

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

3

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Next Actions - 0 points

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Next Actions - 0 points

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

No

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

No

Scoring Notes - 0 points

Next Actions - 0 points

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Next Actions - 0 points



SR 801: SR 303L - SR 202L - Mar 12, 2014

Module: Project Development
Scorecard: Urban Extended
Points: 46
Achievement Level: Bronze

Criteria Points

PD-01 Economic Analyses 5/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

Yes

Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements?

Yes

Scoring Notes

EA was conducted that included land, socio-economic, farm/ag impact analysis, water resource analysis.

Next Actions

Investigate BCA.net and STEAM

PD-02 Lifecycle Cost Analyses 0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

No

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

No

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Both an SR 801 Alternatives Selection Report (ASR) and an Initial Interchange Selection Report were conducted in addition to the EA.

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor

who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

EPG has taken over a project to connect environmental oversight to the ADOT construction audit and inspection process.

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

2 Points

Scoring Notes

The robust alternatives evaluation included the natural environment; conservation easements recreation classifications wilderness areas floddplains Waters of the U.S. T&E species AGFD species CNF species Wildlife corridors Riparian habitat

Next Actions

PD-08 Stormwater

2/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

1 Point

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

1 Point

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

No

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.

2

Scoring Notes

Next Actions

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

No

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

3 Points

Scoring Notes

Next Actions

Transit Modal Analysis report was conducted. In addition, an HOV analysis was conducted due to the cost escalation of adding HOV lanes to the extensive bridge participation on this project.

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

Measures have been taken to specifically avoid impacts to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

1/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

1

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?

No

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

2/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

Yes

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

Yes

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills

SR 801, SR 303L to SR 202L - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 50

Achievement Level: Silver

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	0/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?Yes</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	2/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	2/5

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?No

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities? No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned. 2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

7/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points. 2 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points. 2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points. 3 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity? No

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment? No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points. 3 Points

Scoring Notes

Next Actions

PD-13 Freight Mobility

5/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points. 5 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

5/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points. At least 1 application in 5 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?None

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require

long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.No

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

1/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in

compliance with environmental laws, regulations, and policies?Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?Yes

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?No, or diverted less than 50 percent of the construction waste from landfills



Cameron Bridge - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 78

Achievement Level: Platinum

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?Yes</p> <p>Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements?Yes</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>5/5</p>
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?Yes</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?Yes</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>3/3</p>
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values</p>	<p>3/5</p>

through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

5/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?Yes

Does the environmental tracking system have a formal mechanism to communicate commitments from transportation planning through design, construction and maintenance?Yes

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?Yes

Scoring NotesThe District has been tracking environmental commitments through a "Green Book".

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

2/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.No

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff

volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.No

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.2 Points

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.2

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?Yes, features in the design and construction of new bicycle facilities that enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.No

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint?

Use Table 1 to determine points.No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes
Has an effort been made to minimize impacts, avoid impacts, or enhance features?Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring NotesHAER document completed on historic bridge. Ethnographic study completed. New bridge incorporating sidewalk to allow prayer access.

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?Yes

Scoring NotesEnergy efficient lighting for underpasses.

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?None

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

8/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.4

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.No

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.4

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.3

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

5/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?Yes

Was Pavement Design Completed In Accordance With A Design Procedure That Is Formally Recognized, Adopted, And Documented By The Project Owner?Yes

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

3/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?Yes

Which options was used?Option 1: Asphalt Production

Which of the following options was used to meet the requirement?Option 1B: Burn recycled oil, waste materials, or other fuel saving technologies in HMA plant to reduce conventional fuel usage by a minimum of 25 percent.

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.2

Scoring NotesCarpooled to project meeting.

Next Actions

PD-27 Construction Noise Mitigation

2/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?Yes

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?Yes

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?No, or diverted less than 50 percent of the construction waste from landfills



us 95 ave - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 50

Achievement Level: Silver

Criteria Points

PD-01 Economic Analyses 0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses 1/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development 3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an

equivalent process?Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?No

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the

principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?Yes

Scoring Notes

Next Actions

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.1 Point

Scoring Notes

Next Actions

PD-08 Stormwater

5/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.1 Point

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.2 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage

access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

1/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?Yes, new features were implemented or existing features were improved that addressed safety, comfort, and connectivity.

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

2/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.2 Points

Scoring Notes

Next Actions

PD-13 Freight Mobility

1/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint?

Use Table 1 to determine points.1 Point

Scoring Notes

Next Actions

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure

capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.At least 1 application in 2 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation 1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes
Has an effort been made to minimize impacts, avoid impacts, or enhance features?An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities 0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency 0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation 2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.2

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.No

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not

exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

2/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?Yes

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

PD-29 Construction Waste Management

2/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?Diverted at least 50 percent of the construction waste from landfills



US 95 & US95T - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 64

Achievement Level: Gold

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>0/5</p>
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?Yes</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	<p>2/3</p>
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an</p>	<p>3/5</p>

equivalent process?No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?No

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

6/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.2 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.2 Points

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points. 2

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity? Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment? Yes, features in the design and construction of new bicycle facilities that enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

2/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points. 2 Points

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points. No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

3/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.At least 1 application in 3 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes
Has an effort been made to minimize impacts, avoid impacts, or enhance features?Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

4/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?Yes
Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of

energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?3 Points

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

8/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.4

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.1

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.1

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?Yes

Were foundry sand or other industrial by-products used in pipe bedding and backfill?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

5/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?Yes

Was Pavement Design Completed In Accordance With A Design Procedure That Is Formally Recognized, Adopted, And Documented By The Project Owner?Yes

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

3/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?Yes

Which options was used?Option 1: Asphalt Production

Which of the following options was used to meet the requirement?Option 1A: Used WMA to reduce the mixing temperature of HMA by a minimum of 50°F from that recommended as the mixing temperature by the asphalt binder supplier.

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure? Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1. No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

3/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?Yes

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?No

PD-29 Construction Waste Management

2/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?Diverted at least 50 percent of the construction waste from landfills



Black Mountain Blvd - Jun 24, 2014

Module: Project Development

Points: 49

Achievement Level: Silver

Criteria	Points
PD-01 Economic Analyses	0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses	1/3
--------------------------------------	-----

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development	5/5
--	-----

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in

NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

9/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

No

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess

substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to

determine the points earned.

2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

3/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

No

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

1 Point

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

2 Points

PD-09 Ecological Connectivity

1/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.

1

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

Yes, features in the design and construction of new bicycle facilities that enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

4/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

At least 1 application in 4 separate categories

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?

None

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

3/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are

awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

1

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

Yes

Were foundry sand or other industrial by-products used in pipe bedding and backfill?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

2

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

2/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

Yes

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

Yes

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

Yes

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

No

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

No, or diverted less than 50 percent of the construction waste from landfills



GOLF COURSE RD MUP - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 43

Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	0/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?Yes</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?Yes</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	2/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an</p>	3/5

equivalent process?No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

2/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

3/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.3 Points

Scoring Notes

Next Actions

PD-08 Stormwater

5/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.No

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.3 Points

PD-09 Ecological Connectivity

2/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.2

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity? Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment? Yes, features in the design and construction of new bicycle facilities that enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points. No

Scoring Notes

Next Actions

PD-13 Freight Mobility

2/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points. 2 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine

points.No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?Measures have been taken to specifically avoid impacts to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

3/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?Yes

Points are awarded based on the percentage of reduced power use. Based on Table 1, how many points did the project earn?2 Points

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

2/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.No

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.2

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?Yes

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

3/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?Yes

Which options was used?Option 3. Concrete Production

Which of the following options was used to meet the requirement?Option 3C: Blended cement using limestone addition.

Scoring Notes

Next Actions

PD-24 Contractor Warranty

0/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?No, or the warranty does not meet the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural

environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.No

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?Yes

PD-29 Construction Waste Management

2/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?No

Scoring Notes

Next Actions

Please [log in](#) to continue.



SR 74 - Jun 30, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 44

Achievement Level: Bronze

Criteria

Points

PD-01 Economic Analyses

0/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses

0/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

No

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development

3/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included

planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

No

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

No

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

No

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

No

Scoring Notes**Next Actions****PD-07 Habitat Restoration**

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

2 Points

Scoring Notes**Next Actions****PD-08 Stormwater**

8/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

3 Points

Scoring Notes**Next Actions**

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

3 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

2 Points

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

No

Scoring Notes

Next Actions

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

No

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes**Next Actions****PD-15 Historical, Archaeological, and Cultural Preservation**

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

An effort has been made to minimized "adverse effects" to the features.

Scoring Notes**Next Actions****PD-16 Scenic, Natural, or Recreational Qualities**

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes**Next Actions****PD-17 Energy Efficiency**

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

No

Scoring Notes**Next Actions**

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

No

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

No

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

No

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

No

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

2/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Yes

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

Yes

Scoring Notes**Next Actions****PD-22 Long-Life Pavement Design**

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes**Next Actions****PD-23 Reduced Energy and Emissions in Pavement Materials**

3/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

Yes

Which options was used?

Option 1: Asphalt Production

Which of the following options was used to meet the requirement?

Option 1A: Used WMA to reduce the mixing temperature of HMA by a minimum of 50°F from that recommended as the mixing temperature by the asphalt binder supplier.

Scoring Notes**Next Actions****PD-24 Contractor Warranty**

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes**Next Actions****PD-25 Construction Environmental Training**

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes**Next Actions****PD-26 Construction Equipment Emission Reduction** 1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes**Next Actions****PD-27 Construction Noise Mitigation** 2/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

Yes

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

Yes

Scoring Notes**Next Actions****PD-28 Construction Quality Control Plan** 0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes**Next Actions**

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

PD-29 Construction Waste Management 2/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes**Next Actions**

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?

Diverted at least 50 percent of the construction waste from landfills



Araby Road - Jun 24, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 26

Achievement Level: Not Rated

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...</p> <p>Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	0/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?No</p> <p>Was an LCCA performed for all stormwater infrastructure alternatives considered?No</p> <p>Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?No</p> <p>Scoring Notes</p> <p>Next Actions</p>	0/3
<p>PD-03 Context Sensitive Project Development</p> <p>Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.</p> <p>Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an</p>	2/5

equivalent process?No

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?No

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?Yes

PD-04 Highway and Traffic Safety

1/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Was awareness built among the public regarding contributing factors to crashes?Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?No

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?No

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?No

Scoring Notes

Next Actions

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum

of two different elements from the table provided?

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?No

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.None

Scoring Notes

Next Actions

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.No

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.2 Points

PD-09 Ecological Connectivity

1/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?Yes

Were methods used to minimize impacts to ecological connectivity? Use Table 1 to determine points.1

Scoring Notes

Next Actions

PD-10 Pedestrian Access

1/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?Yes, new features were implemented or existing features were improved that addressed safety, comfort, and connectivity.

Scoring Notes

Next Actions

PD-11 Bicycle Access

1/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?Yes, new features were implemented or existing features were improved on existing bicycle that addressed safety and connectivity.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.No

Scoring Notes

Next Actions

PD-13 Freight Mobility

2/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.2 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

1/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.At least 1 application in any category

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

1/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?Yes
Has an effort been made to minimize impacts, avoid impacts, or enhance features?An effort has been made to minimized "adverse effects" to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?No

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?No

Was a plan established for auditing energy use after project completion as part of operations and maintenance?No

PD-18 Site Vegetation

2/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?2 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities?

Points are awarded per Table 1.No

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

Was remaining service life increased through bridge preservation activities?

Points are awarded per Table 3.

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.2

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?



I-8 Araby Road TI - Dec 12, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 35

Achievement Level: Not Rated

Criteria

Points

PD-01 Economic Analyses

2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

Yes

Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements?

No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses

2/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

No

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

4/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

The project relied solely on published design and operational performance standards during the project development process.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

No

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

No

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

Scoring Notes

Next Actions

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

Scoring Notes

Next Actions

PD-08 Stormwater

5/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

3 Points

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

1 Point

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

1 Point

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

Scoring Notes

Next Actions

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

Were pedestrian features implemented on this project that enhance or help achieve safety, comfort, and connectivity?

Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes

Next Actions

PD-11 Bicycle Access

1/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

Were bicycle facilities implemented on this project that enhance or help achieve safety, connectivity, and aesthetics/comfort/environment?

Yes, new features were implemented or existing features were improved on existing bicycle that addressed safety and connectivity.

Scoring Notes

Next Actions

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-13 Freight Mobility

2/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

2 Points

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

2/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

Measures have been taken to specifically avoid impacts to the features.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

No

Scoring Notes

Next Actions

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

PD-18 Site Vegetation

1/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

1 Point

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

2/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

1

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

Yes

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-21 Earthwork Balance

3/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

Yes

Scoring Notes

Next Actions

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

Yes

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?



Silver King Section and Superior Streets - Dec 16, 2014

Module: Project Development

Scorecard: Urban Extended

Points: 53

Achievement Level: Silver

Criteria

Points

PD-01 Economic Analyses

2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the...

Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices?

Yes

Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements?

No

Scoring Notes

Next Actions

PD-02 Lifecycle Cost Analyses

3/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered?

Yes

Was an LCCA performed for all stormwater infrastructure alternatives considered?

Yes

Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis?

Yes

Scoring Notes

Next Actions

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process?

Yes

Scoring Notes

Next Actions

Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

Yes

As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it?

Yes

Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them?

Yes

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

Were human factors considerations incorporated?

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

Was awareness built among the public regarding contributing factors to crashes?

Yes

Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods?

Yes

Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods?

Yes

Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process?

Yes

Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details?

Yes

Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project?

Yes

Scoring Notes

Next Actions

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from the table provided?

Yes

Scoring Notes

Next Actions

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

Was a comprehensive environmental compliance tracking system used for the project and related facilities?

No

Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies?

Yes

Scoring Notes

Next Actions

PD-07 Habitat Restoration

2/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond...

Was project-specific mitigation or mitigation banking used on this project? Use the table to determine the points earned.

2 Points

Scoring Notes

Next Actions

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and...

Did the project treat at least 80% of the total runoff volume? Use Tables 1 and 2 to determine points.

1 Point

Scoring Notes

Next Actions

Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Table 3 to determine points.

2 Points

Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables 4 and 5 to determine points.

1 Point

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted?

No

Scoring Notes

Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

Were one or more allowable ITS applications installed? Use Table 1 to determine points.

No

Scoring Notes

Next Actions

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer?

Yes

Has an effort been made to minimize impacts, avoid impacts, or enhance features?

Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring Notes

Next Actions

PD-16 Scenic, Natural, or Recreational Qualities

3/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such?

Yes

Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves?

Yes

Were efforts made to minimize impacts, avoid impacts, or enhance features of the scenic, natural, and/or recreational qualities?

Efforts were made to protect, preserve, or enhance scenic, natural, or recreational qualities along the roadway.

Scoring Notes

Next Actions

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

Were energy needs evaluated for the project?

Yes

Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards?

Yes

Scoring Notes

Next Actions

Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources?

Was a plan established for auditing energy use after project completion as part of operations and maintenance?

Yes

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal.

Does all site vegetation use non-invasive species only, use non-toxic species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species?

Yes

Points are awarded based on the number of sustainable site vegetation features implemented. Based on Table 1, how many points did the project earn?

3 Points

Scoring Notes

Next Actions

PD-19 Reduce and Reuse Materials

8/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

Was remaining service life increased through pavement preservation activities? Points are awarded per Table 1.

2

Was the amount of new pavement materials needed reduced? Points are awarded per Table 2.

No

Was remaining service life increased through bridge preservation activities? Points are awarded per Table 3.

4

Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table 3.

2

Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table 4.

1

Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements?

No

Scoring Notes

Next Actions

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table 1.

No

Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table 2.

No

Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite?

No

Next Actions

Scoring Notes

Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score.

APPENDIX 1 - CRITERIA FOR THE 2015-2016 CONSTRUCTION QUALITY AWARD PROGRAM

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%?

No

Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used?

No

Scoring Notes

Next Actions

APPENDIX 1 - CRITERIA FOR THE 2015-2016 CONSTRUCTION QUALITY AWARD PROGRAM

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)?

No

Scoring Notes

Next Actions

APPENDIX 1 - CRITERIA FOR THE 2015-2016 CONSTRUCTION QUALITY AWARD PROGRAM

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

Was at least 50 percent of the total project pavement material (by weight) a low-energy material?

No

Scoring Notes

Next Actions

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

Does the project construction contract include a warranty for the constructed portion of the pavement structure?

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes

Next Actions

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies?

No

Scoring Notes

Next Actions

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table 1.

1

Scoring Notes

Next Actions

PD-27 Construction Noise Mitigation

0/2

Reduce or eliminate annoyance or disturbance to surrounding neighborhoods and environments from road construction noise, and improve human health.

Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction?

No

Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP?

No

Scoring Notes

Next Actions

PD-28 Construction Quality Control Plan

0/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations?

No

Scoring Notes

Next Actions

Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products?

No

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

Yes

Scoring Notes

Next Actions

Can the owner demonstrate that a percentage of the construction waste have been diverted from landfills?



Silver King Section and Superior Streets - Mar 30, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 57

Achievement Level: Silver

Criteria Points

PD-01 Economic Analyses 2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

Yes

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses 3/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

Yes

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project? - 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

9/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-

05.1.A? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

6/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points.

- 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/2

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

PD-10.1b Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

1/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

PD-11.1a Yes, new features were implemented or existing features were improved on existing bicycle facilities that addressed safety and connectivity.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

0/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

0/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

3/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

Yes

PD-15.1 Has an effort been made to minimize impacts, avoid impacts, or enhance features? - 0 points

PD-15.1c Actions have been taken to enhance features through the protection, preservation, and/or enhancement of historic, archaeological, or cultural resources.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

3/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

Yes

PD-16.2P Was existing access to scenic, natural, or recreational qualities not removed (i.e., maintained) as a part of this project unless it was specifically removed to protect the scenic, natural, and/or recreational qualities themselves? - 0 points

Yes

PD-16.1 Were efforts made to avoid or minimize impacts, or enhance features, of the scenic, natural, and/or recreational qualities? - 0 points

PD-16.1d Efforts were made to protect, preserve, or enhance scenic, natural, or recreational qualities along the roadway.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

6/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

2

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

1

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

1/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements,

including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

Yes

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

1/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 3-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

1/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

1

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

2/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

1/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent?

- 0 points

Yes

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



202L HOV Lanes - Apr 3, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 47

Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	2/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>Yes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>Yes</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p>	3/3

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

Yes

PD-06.1b Does the environmental tracking system have a formal mechanism to communicate commitments from transportation planning through design, construction and maintenance? - 0

points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

3/3

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

1/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

PD-10-1a Yes, new features were implemented or existing features were improved that addressed safety, comfort, and connectivity.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/5

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

2/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 2 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

8/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded

per Table PD-19.3.A. - 0 points

4

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/3

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



202L HOV Lanes - Apr 13, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 49

Achievement Level: Bronze

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>No</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	<p>2/5</p>
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>Yes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>Yes</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p>	<p>3/3</p>

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

7/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

No

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

Yes

PD-06.1b Does the environmental tracking system have a formal mechanism to communicate commitments from transportation planning through design, construction and maintenance? - 0

points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

4/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

1/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

PD-10-1a Yes, new features were implemented or existing features were improved that addressed safety, comfort, and connectivity.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

3/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 3 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities 0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency 0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

8/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded

per Table PD-19.3.A. - 0 points

4

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

2

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/3

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



101 General Purpose Lanes - Apr 3, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 42

Achievement Level: Bronze

Criteria

Points

PD-01 Economic Analyses

2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

Yes

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses

3/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

Yes

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

8/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance

monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

2/5

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

1 Point

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implements on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need,

purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility 0/5

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations 3/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 3 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation 0/5

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian

Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

0/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

No

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

5/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

2

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are

awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/8

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced

to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



101 General Purpose Lanes - Apr 13, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 45

Achievement Level: Bronze

Criteria	Points
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PD-01 Economic Analyses 2/5

Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.

PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points

Yes

PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-02 Lifecycle Cost Analyses 3/3

Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.

PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points

Yes

PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points

Yes

PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

4/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

No

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

8/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

No

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

0/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

0/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance

monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 Habitat Restoration

0/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

None

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 Stormwater

4/5

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

0/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implemented on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

0/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

3/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need,

purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

3/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 3 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian

Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

1/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

5/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

2

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

2

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

1

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are

awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced

to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

1/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

0/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/5

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."



SR 30 - SR303L to SR202L DCR/EA - Apr 8, 2015

Module: Project Development

Scorecard: Urban Extended

Points: 61

Achievement Level: Silver

Criteria	Points
<p>PD-01 Economic Analyses</p> <p>Using the principles of benefit-cost analysis (BCA) or economic impact analysis (EIA), provide evidence that the user benefits, including environmental, economic, and social benefits, and justify the full life-cycle costs.</p> <p>PD-01.1a Was a benefit-cost analysis (BCA) for the project completed using minimum acceptable industry practices? - 0 points</p> <p>Yes</p> <p>PD-01.1b Was an Economic Impact Analysis (EIA) completed that meets all the listed requirements? - 0 points</p> <p>Yes</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p> <p>Next Actions - 0 points</p> <p>Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."</p>	5/5
<p>PD-02 Lifecycle Cost Analyses</p> <p>Reduce life-cycle costs and resource consumption through the informed use of life-cycle cost analyses of key project features during the decision-making process for the project.</p> <p>PD-02.1a Was an LCCA performed for all pavement structure alternatives in accordance with the method described in the FHWA's Technical Bulletin for Life-Cycle Cost Analysis? - 0 points</p> <p>Yes</p> <p>PD-02.1b Was an LCCA performed for all stormwater infrastructure alternatives considered? - 0 points</p> <p>Yes</p> <p>PD-02.1c Was an LCCA performed for the project's major feature (bridges, tunnels, retaining walls, or other items not listed in the preceding options) for each of the alternatives considered? - 0 points</p> <p>Yes</p> <p>Scoring Notes - 0 points</p> <p>Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."</p>	3/3

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-03 Context Sensitive Project Development

5/5

Deliver projects that harmonize transportation requirements and community values through effective decision-making and thoughtful design.

PD-03.1 Did the project development process generally follow the six-step CSS framework described in NCHRP report 480 and NCHRP report 642, or an equivalent process? - 0 points

Yes

PD-03.2 Did the project development process feature a "cradle-to-grave" project team that included planners, traffic engineers, public involvement specialists, design engineers, environmental experts, safety specialists, landscape architects, right-of-way staff, freight experts, construction engineers, and others to work on projects who worked together to achieve the desired CSS-based vision for the project?

- 0 points

Yes

PD-03.3 As a result of CSS-influenced project development process, were external "champions" for the project created in the affected community who were engaged and proactive in supporting it? - 0 points

Yes

PD-03.4 Was acceptance achieved among project stakeholders on the problems, opportunities, and needs that the project should address and the resulting vision or goals for addressing them? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-04 Highway and Traffic Safety

10/10

Safeguard human health by incorporating science-based quantitative safety analysis processes within project development that will reduce serious injuries and fatalities within the project footprint.

PD-04.1 Were human factors considerations incorporated? - 0 points

Interactions between road users and the roadway using fundamentals captured in Chapter 2 of the Highway Safety Manual and the Human Factors Guideline for Road Systems (NCHRP Report 600 series) were evaluated, documented, and incorporated.

PD-04.2 Was awareness built among the public regarding contributing factors to crashes? - 0 points

Yes

PD-04.3 Does the agency conduct explicit consideration of safety using quantitative, scientifically proven methods? - 0 points

Yes

PD-04.3a Was the project type established during scoping of project alternatives through a quantitative and statistically reliable process? - 0 points

Yes

PD-04.3b Were project design and/or operational alternatives developed and evaluated using explicit consideration of substantive safety through quantitative, statistically reliable methods? - 0 points

Yes

PD-04.3c Were quantitative and statistically reliable methods and knowledge used to assess substantive safety performance in the development of preliminary and final design details? - 0 points

Yes

PD-04.4 Was a statistically reliable, science-based method used to evaluate the safety effectiveness of the implemented project? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-05 Educational Outreach

2/2

Increase public, agency, and stakeholder awareness of the integration of the principles of sustainability into roadway planning, design, and construction.

PD-05.1 Did this project incorporate public educational outreach that promotes and educates the public about sustainability by installing or performing a minimum of two different elements from Table PD-05.1.A? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-06 Tracking Environmental Commitments

2/5

Ensure that environmental commitments made by the project are completed and documented in accordance with all applicable laws, regulations, and issued permits.

PD-06.1a Was a comprehensive environmental compliance tracking system used for the project and related facilities? - 0 points

No

PD-06.2 Has the principal project constructor assigned an independent environmental compliance monitor who will provide quality assurance services and report directly to and make recommendations to the regulatory and Lead Agencies? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-07 **Habitat Restoration**

1/3

Avoid, minimize, and compensate the loss and alteration of natural (stream and terrestrial) habitat caused by project construction and/or restore, preserve, and protect natural habitat beyond regulatory requirements.

PD-07.1 Was project-specific mitigation or mitigation banking used on this project? Use Table PD-07.1.A to determine the points earned. - 0 points

1 Point

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-08 **Stormwater**

6/9

Improve stormwater quality from the impacts of the project and control flow to minimize their erosive effects on receiving water bodies and related water resources, using management methods and practices that reduce the impacts associated with development and redevelopment.

PD-08.1 Did the project treat at least 80% of the total runoff volume? Use Tables PD-08.1.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.2 Did the project manage the flow from at least 80 percent of the total runoff volume, and is flow control based on controlling peak flows or durations from the project site? Use Tables PD-08.2.A and PD-08.1.B to determine points. - 0 points

2 Points

PD-08.3 Did the project use effective BMPs or stormwater management techniques that mimic natural hydrology to treat pollutants? Use Tables PD-08.3.A and PD-08.3.B and PD-08.1.B to determine points. - 0 points

2 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-09 Ecological Connectivity

0/3

Avoid, minimize, or enhance wildlife, amphibian, and aquatic species passage access, and mobility, and reduce vehicle-wildlife collisions and related accidents.

PD-09.1P Was a site-specific ecological assessment of the roadway project using GIS data or regional expertise conducted? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-10 Pedestrian Access

2/2

Improve the safety and convenience of pedestrian networks for people of all ages and abilities by providing or enhancing facilities within the project footprint.

PD-10.1 Were new pedestrian features implemented on this project that were not intended to bring existing facilities up to ADA standards? - 0 points

PD-10.1b Yes, features in the design and construction were included that addressed safety, comfort, connectivity, and aesthetics/environment.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-11 Bicycle Access

2/2

Promote bicycling in communities by providing or enhancing safe and convenient bicycling facilities within the project footprint.

PD-11.1 Were bicycle facilities implemented on this project that meet the requirements? - 0 points

PD-11.1b Yes, features in the design and construction of new bicycle facilities enhance safety, connectivity, aesthetics, comfort, and environment.

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-12 Transit and HOV Access

4/5

Promote use of public transit and carpools in communities by providing new transit and high occupancy vehicle (HOV) facilities, or by upgrading existing facilities within the project footprint.

PD-12.1 Were Transit and HOV facilities installed on this project that are consistent with the need, purpose, and appropriateness for transit and HOV access within the project footprint? Use Table PD-12.1.A to determine points. - 0 points

4 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-13 Freight Mobility

0/7

Enhance mobility of freight movements, decrease fuel consumption and emissions impacts, and reduce freight-related noise.

PD-13.1 Were freight facilities installed on this project consistent with the need, purpose, and appropriateness for freight mobility within the project footprint? Use Table PD-13.1.A to determine points. - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-14 ITS for System Operations

4/5

Improve the efficiency of transportation systems without adding infrastructure capacity in order to reduce emissions and energy use, and improve economic and social needs.

PD-14.1 Were one or more allowable ITS applications installed? Use Table PD-14.1.A to determine points. - 0 points

At least 1 application in 4 separate categories

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-15 Historical, Archaeological, and Cultural Preservation

0/3

Preserve, protect, or enhance cultural and historic assets, and/or feature National Scenic Byways Program (NSBP) historic, archaeological, or cultural intrinsic qualities in a roadway.

PD-15.1P Is any part of the project or resource listed in the NRHP or been determined eligible for the

NHRP by a State, Local, or Tribal Historic Preservation Officer? - 0 points

No

PD-15.2P Is a portion of the project along one of Americas Byways, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route designated or officially recognized as significantly historical, cultural, or archaeological? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-16 Scenic, Natural, or Recreational Qualities

0/3

Preserve, protect, and/or enhance routes designated with significant scenic, natural, and/or recreational qualities in order to enhance the public enjoyment of facilities.

PD-16.1P Is any portion of the project along one of America's Byways®, a State Scenic Byway, an Indian Tribe Scenic Byway, or other route that was designated or officially recognized as such? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-17 Energy Efficiency

2/8

Reduce energy consumption of lighting systems through the installation of efficient fixtures and the creation and use of renewable energy.

PD-17.1 Were energy needs evaluated for the project? - 0 points

Yes

PD-17.1 Were alternatives implemented to reduce power consumption while still meeting lighting and safety standards? - 0 points

Yes

PD-17.2 Was the energy consumption on the project reduced through the installation of energy efficient lighting and signal fixtures and through the installation of autonomous, on-site, renewable power sources? - 0 points

No

PD-17.3 Was a plan established for auditing energy use after project completion as part of operations and maintenance? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-18 Site Vegetation

3/3

Promote sustainable site vegetation within the project footprint that does not require long-term irrigation, consistent mowing, or invasive/noxious weed species removal by selecting plants and maintenance methods that benefit the ecosystem.

PD-18.1P Does all site vegetation use non-invasive species only, use non-noxious species only, use seeding that does not require consistent mowing for a viable stand of grass, and minimize disturbance of native species? - 0 points

Yes

PD-18.1 Based on Table PD-18.1.A, how many points did the project earn? Points for features are additive, however this criterion shall not exceed a total of 3 points. - 0 points

3 Points

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-19 Reduce and Reuse Materials

0/8

Reduce lifecycle impacts from extraction and production of virgin materials by recycling materials.

PD-19 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-19.1 Was remaining service life increased through pavement preservation activities? Points are awarded per Table PD-19.1.A. - 0 points

No

PD-19.2 Was the amount of new pavement materials needed reduced? Points are awarded per Table PD-19.2.A. - 0 points

No

PD-19.3 Was remaining service life increased through bridge preservation activities? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.4 Was remaining service life increased through retrofitting existing bridge structures? Points are awarded per Table PD-19.3.A. - 0 points

No

PD-19.5 Were existing pavements, structures, or structural elements reused for a new use? Points are awarded per Table PD-19.5.A. - 0 points

No

PD-19.6b Were industrial by-products reused in pavement materials, ancillary structures, and other roadway elements? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-20 Recycle Materials

0/8

Reduce lifecycle impacts from extraction, production, and transportation of virgin materials by recycling materials.

PD-20 Points for different methods are cumulative; however, this criterion shall not exceed a total of eight points. Points exceeding eight will not contribute to overall score. - 0 points

I understand.

PD-20.1 Was RAP or RCA used in new pavement lifts, granular base course, or embankments? Points are awarded per Table PD-20.1.A. - 0 points

No

PD-20.2 Were pavement materials recycled in place using cold-in-place recycling, hot-in-place recycling, and full depth reclamation methods? Points are awarded per Table PD-20.2.A. - 0 points

No

PD-20.3 Did the project relocate and reuse at least 90 percent of the minor structural elements, including existing luminaires, signal poles, and sign structures that are required to be removed and/or relocated onsite? - 0 points

No

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

PD-21 Earthwork Balance

0/3

Reduce the need for transport of earthen materials by balancing cut and fill quantities.

PD-21.1a Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10%? - 0 points

No

PD-21.1b Are the design cut and fill volumes or the actual construction cut and fill volumes balanced to within 10% if construction banking is used? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-22 Long-Life Pavement Design

0/5

Minimize life-cycle costs by designing long-lasting pavement structures.

PD-22.1 Is 75% or greater of the total new or reconstructed pavement surface area for regularly trafficked lanes designed for long-life (min. 40 years)? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-23 Reduced Energy and Emissions in Pavement Materials

0/3

Reduce energy use in the production of pavement materials.

PD-23.1 Was at least 50 percent of the total project pavement material (by weight) a low-energy material? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-24 Contractor Warranty

3/3

Improve quality and minimize life-cycle costs by promoting the use of extended contractor warranties for pavement.

PD-24.1 Does the project construction contract include a warranty for the constructed portion of the pavement structure? - 0 points

Yes, 5-year warranty that meets the minimum contractual warranty specifications listed

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-25 Construction Environmental Training

0/1

Provide construction personnel with the knowledge to identify environmental issues and best practice methods to minimize impacts to the human and natural environment.

PD-25.1 Did owner require the Contractor to plan and implement a formal environmental awareness training program during construction to ensure the project stay in compliance with environmental laws, regulations, and policies? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-26 Construction Equipment Emission Reduction

2/2

Reduce air emissions from non-road construction equipment.

PD-26.1 Were one or more methods implemented to reduce non-road emissions? Points are awarded per Table PD-26.1.A. - 0 points

2

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-27 Construction Noise Mitigation

0/2

Reduce annoyance or disturbance to surrounding neighborhoods and environments from road construction noise.

PD-27.1 Is the contractor required to establish, implement, and maintain a formal Noise Mitigation Plan (NMP) during roadway construction? - 0 points

No

PD-27.2 Has the contractor monitored noise and the effectiveness of mitigation measures at the receptors throughout construction to ensure compliance with the NMP? - 0 points

No

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-28 Construction Quality Control Plan

5/5

Improve quality by requiring the contractor to have a formal Quality Control Plan (QCP).

PD-28.1 Is the Contractor required to plan and implement quality control measures throughout construction with care and for materials above and beyond what is typically required by specifications and regulations? - 0 points

Yes

PD-28.2 Does the contract leverage the use of Quality Price Adjustment Clauses to link payment and performance of the constructed products? - 0 points

Yes

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

PD-29 Construction Waste Management

0/3

Utilize a management plan for road construction waste materials to minimize the amount of construction-related waste destined for landfill.

PD-29.1 Is the contractor required to establish, implement, and maintain a formal Construction and Demolition Waste Management Plan (CWMP) during roadway construction, or its functional equivalent? - 0 points

0 points

No

PD-29.2 Can the owner demonstrate that a percentage of the construction waste has been diverted from landfills? - 0 points

No, or diverted less than 50 percent of the construction waste from landfills

Scoring Notes - 0 points

Track your scoring notes here. For example, "Based on May 2, 2012 Technical Report (attached)."

Next Actions - 0 points

Record future actions here. For example, "Coordinate with HQ and ensure specifications meet requirements."

Appendix C-1: Roles & Responsibilities

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