Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

Project Information

Project Name: US 6 Bridges Design Build Project
Environmental Project Manager: Jordan Rudel
Project Number: BR 0061-083
Document Type and Date of Approval: US 6 Bridges Design Build Project Reevaluation and Record of Decision (2012)
Project Phase: Final design and construction

										Mitigation Status		**Agency Coordination**		
Mitigation Commitment #	**Mitigation Category**	**Activity Triggering Mitigation**	**Location of Activity Triggering Mitigation**	**Impact from NEPA Document**	**Commitment From Mitigation Table In Source Document Use Exact Wording from Table in Source Document**	**Responsible Branch***	**Timing/Phase of Construction Mitigation to be Constructed**	**Source Document of Mitigation Commitment and Page Number**	**Location of Mitigation(s) in Plan Sheets/Specs Include All Page Numbers that Apply**	**Date Mitigation Completed**	**Name of Person Completing Mitigation**	**Agency Coordination Required? Yes or No**	**Name of Each Agency**	**Comments**
1	Air Quality	Construction activities involving earth moving and storage of fill and rock products.	Within US 6 Bridges Design Build Project Limits	Temporary increase in air emissions during construction.	In accordance with CDPHE-APCD requirements, prepare and implement a dust control plan.	Contractor	Pre-construction	Appendix E: Air Quality Technical Report, Page 27						
2	Air Quality	Construction	Within US 6 Bridges Design Build Project Limits	Temporary increase in air emissions during construction.	All non-road equipment will use ultra-low sulfur diesel.	Contractor	Throughout	Appendix E: Air Quality Technical Report, Page 27						
3	Air Quality	Construction activities involving earth moving and storage of fill and rock products.	Within US 6 Bridges Design Build Project Limits	Temporary increase in air emissions during construction.	Locate stationary emissions equipment (generators, compressors, idling vehicles, etc) with consideration of public health and environment.	Contractor	Construction	Appendix E: Air Quality Technical Report, Page 27						
4	Air Quality	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Increased risk of exposure of dust emissions and asbestos to workers, nearby residents and recreational users may be encountered during construction.	Comply with CDOT's Specification 250.70 - Asbestos Containing Material Management if asbestos is encountered.	Contractor	Construction	Appendix E: Air Quality Technical Report, Page 28						
5	Air Quality	Construction	Within US 6 Bridges Design Build Project Limits	Maintain construction equipment in good working order; minimize excessive idling of inactive equipment or vehicles.	Minimize excessive idling of inactive equipment or vehicles.	Contractor	Throughout	Appendix E: Air Quality Technical Report, Page 28						
6	Air Quality	Construction	Within US 6 Bridges Design Build Project Limits	Maintain construction equipment in good working order; minimize excessive idling of inactive equipment or vehicles.	If construction equipment is creating excessive air quality emissions that have a potential to affect air quality for operators or persons working/living in the area, equipment shall be taken out of operation until fixed or replaced.	Contractor	Construction	Appendix E: Air Quality Technical Report, Page 28						
7	Geology	Final design of roadway and structures	Bridge piers, retaining walls, and grade separation structures.	Expansive soils and unsuitable fill material may be encountered	Conduct a geotechnical analysis of the surrounding subsurface prior to final design to consider the potential for expansive soils. If discovered, unsuitable fill will be removed and replaced with appropriate fill material or mitigated as recommended by the geotechnical analysis.	Contractor	Pre-construction	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-10						
8	Water Quality	Runoff (including sedimentation) from roadway during operations.	Within US 6 Bridges Design Build Project Limits	Impacts to aquatic resources as a result of water quality degradation.	Identify hazardous spill containment structure locations and recommend BMPs based on their potential effectiveness in reducing hazardous waste discharge to the South Platte River. Comply with CDOT Standard Specification 207 and 208.	Contractor	Pre-construction	Appendix M: Water Quality Report, Page 3						
9	Water Quality	Runoff from construction	Within US 6 Bridges Design Build Project Limits	Impacts to aquatic resources as a result of water quality degradation.	Implement appropriate temporary BMPs for erosion and sediment control according to the CDOT Erosion Control and Stormwater Quality Guide (CDOT, 2002), and develop a stormwater management plan (SWMP), which includes water quality monitoring by the construction Contractor to ensure effectiveness of temporary construction BMPs.	Contractor	Throughout	Appendix M: Water Quality Report, Page 3						
10	Water Quality	Runoff from roadway.	Within US 6 Bridges Design Build Project Limits	Impacts to water resources as a result of water quality degradation due to contaminant runoff.	Provide for permanent stabilization consistent with CDOT's MS4 permit through revegetation and permanent erosion controls measures.	Contractor	Throughout	Appendix M: Water Quality Report, Page 3						
11	Water Quality	Runoff from roadway.	Within US 6 Bridges Design Build Project Limits	Impacts to water resources as a result of water quality degradation due to contaminant runoff.	Use storm sewer system, pump stations, or other approved methods to remove runoff at underpasses on grade separations and use water quality ponds or other approved water quality BMPs to settle sediment and improve water quality prior to releasing the runoff into the South Platte River.	Contractor	Throughout	Appendix M: Water Quality Report, Page 3						
12	Water Quality	Long-term erosion impacts from soil disturbance during construction.	Within US 6 Bridges Design Build Project Limits	Erosion, leading to increased sedimentation.	Reduce the overall number of outfalls into the South Platte River in compliance with CDOT's MS4 permit.	Contractor	Pre-construction	Appendix M: Water Quality Report, Page 3						
13	Water Quality	Long-term erosion impacts from soil disturbance during construction.	Within US 6 Bridges Design Build Project Limits	Erosion, leading to increased sedimentation.	Install energy dissipaters, such as riprap, or other equitable allowable BMPs, at outfalls to reduce erosion potential in accordance with Section 208 of the 2011 Standard Specification for Road and Bridge Construction.	Contractor	Throughout	Appendix M: Water Quality Report, Page 4						
14	Water Quality	Runoff from roadway.	Within US 6 Bridges Design Build Project Limits	Impacts to water resources as a result of water quality degradation due to contaminant runoff.	The 2012 Reevaluation and preliminary design identified the need for water quality ponds. Construct ponds or other equitable allowable permanent BMPS, for erosion and sediment control according the CDOT Erosion Control and Stormwater Quality Guide (CDOT, 2002).	Contractor	Throughout	Appendix M: Water Quality Report, Page 4						
15	Floodplains	Encroachment into the floodplain.	Floodplain	Potential floodplain impacts due to the replacement of the South Platte River Bridge and the reconstruction of the I-25/US 6 interchange	Design bridges to minimize the impact on floodplains from piers, abutments, and roadways, to the extent practicable.	Contractor	Pre-construction	Appendix M: Water Quality Report, Page 4						
16	Floodplains	Encroachment into the floodplain.	Floodplain	Potential floodplain impacts due to the replacement of the South Platte River Bridge and the reconstruction of the I-25/US 6 interchange	Restore construction areas to the pre-construction conditions in accordance with Book 2 Section 5.1.6. Vegetation.	Contractor	Post-construction	Appendix M: Water Quality Report, Page 4						
17	Floodplains	Encroachment into the floodplain.	Floodplain	Potential floodplain impacts due to the replacement of the South Platte River Bridge and the reconstruction of the I-25/US 6 interchange	Provide adequate floodplain width in areas of floodplain encroachment for overall "no rise" in floodplain.	Contractor	Pre-construction	Appendix M: Water Quality Report, Page 4						
18	Floodplains	Encroachment into the floodplain.	Floodplain	Potential floodplain impacts due to the replacement of the South Platte River Bridge and the reconstruction of the I-25/US 6 interchange	Contractor shall ensure that there is no rise in floodplain elevation due to construction of the Project. If there is a rise in floodplain elevation, future coordination with the Denver Area Urban Drainage and Flood Control District will be required.	Contractor	Throughout	Appendix M: Water Quality Report, Page 4						

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19	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	Accurately estimate the amount of permanent and temporary impacts to all jurisdictional and non-jurisdictional wetlands including the 100 square foot area near the I-25 southbound ramp to US 6 identified in the Biological Resources Report and the impacts below the ordinary high water mark due to the replacement of the South Platte River bridge. The Contractor must provide those impact calculations to CDOT as part of the Section 404 permit application.	Contractor	Pre-construction	Appendix G: Biological Resources Report, Page 40						
20	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	Mitigate for temporary and permanent wetland impacts, through banking, to both jurisdictional and non-jurisdictional wetlands on a 1:1 basis, at a minimum. CDOT will pay for mitigation banking credits for 100 square feet of wetland impacts. The Contractor is responsible to pay for any additional wetland bank credits, beyond the CDOT provided 100 square feet, from a wetland mitigation bank approved by the USACE.	CDOT/Contractor	Pre-construction	Appendix G: Biological Resources Report, Page 40						
21	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	Ensure that all environmentally sensitive areas have clearly labeled "No Parking and No Staging Areas" on the final plan sheets; all wetlands delineated and mapped for the project as shown in Biological Resources Report that will not be impacted by the project, will be protected from construction activities by construction limit fencing.	Contractor	Construction	Appendix G: Biological Resources Report, Page 41						
22	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	CDOT will require the Contractor to prepare any applications for Clean Water Act Section 404 permits and submit to CDOT for final review, approval, and submittal to USACE.	Contractor/CDOT	Pre-construction	Appendix G: Biological Resources Report, Page 41						
23	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	Design and construct minimum length culverts and use construction BMPs to reduce impacts to wetlands, waters of the US and riparian areas.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 41						
24	Wetlands and Waters of the State/US	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Direct and/or indirect impacts to wetlands and other Waters of the United States.	Use construction BMPs to reduce temporary impacts; and use water quality BMPs to minimize indirect impacts.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 41						
25	Vegetation and Wildlife	Impacts to trees/wildlife/fisheries	South Platte River	Removal of trees, potential effects to state listed species	Prepare an SB-40 Wildlife Certification Application and Mitigation Plan and submit to CDOT for final review, approval, and CDOT submittal to the Colorado Parks and Wildlife prior to construction. The Contractor will be responsible for any replacement trees as required. CDOT shall review, approve and submit the application to CPW at least 60 days prior to planned construction or maintenance activities to allow for CPW review of the submitted documents and for follow up coordination, if required. CDOT Project Special Provision 240 will be followed.	Contractor/CDOT/ CPW	Pre-construction	Appendix G: Biological Resources Report, Page 37						
26	Vegetation and Wildlife	Clearing or grading	Within US 6 Bridges Design Build Project Limits	Potential introduction of noxious weeds into areas disturbed by construction.	Reseed and protect temporary disturbance areas with CDOT-approved BMPs and avoid disturbance to existing vegetation, to the maximum extent possible.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 38						
27	Vegetation and Wildlife	Clearing or grading	Within US 6 Bridges Design Build Project Limits	Potential introduction of noxious weeds into areas disturbed by construction.	Seed, mulch, and mulch tackifier will be applied in accordance with CDOT Specifications.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 38						
28	Vegetation and Wildlife	Construction-related disturbance between April 1 and August 31.	Within US 6 Bridges Design Build Project Limits	Potential to disturb migratory bird nests as a result of tree removal. Potential to disturb nesting Cliff Swallows during demolition or construction activities of the structures over the South Platte River.	Follow CDOT Project Special Provision 240. If construction is to commence between April 1 and August 31, to avoid impacts to nesting birds in accordance with the MBTA, a qualified biologist will conduct a nest survey prior to construction. If active nests are found during construction, coordination with CPW and USFWS is required to determine an appropriate course of action, which may include, but is not limited to, a delay in construction to avoid the breeding season.	Contractor	Pre-construction	Appendix G: Biological Resources Report, Page 35						
29	Vegetation and Wildlife	Impact to trees	Within US 6 Bridges Design Build Project Limits	Removal of trees throughout the project area.	Trees removed during construction shall be replaced at a 1:1 replacement ratio based on a stem count of all trees with diameter at breast height of 2 inches or greater. Shrubs removed during construction, whether native or non-native, will be replaced based on their preconstruction aerial coverage. In all cases, all such trees and shrubs will be replaced with native species.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 39						
30	Vegetation and Wildlife	Impacts to habitat	Within US 6 Bridges Design Build Project Limits	Short-term disturbance of wildlife and aquatic habitat during construction.	Construct bridges over the South Platte River during the non-breeding season (August through March) to avoid impacts to spawning fish and spawn beds or as otherwise specified in the SB-40 Wildlife Certification.	Contractor	Construction	Appendix G: Biological Resources Report, Page 42						
31	Vegetation and Wildlife	Impacts to habitat due to dewatering	Within US 6 Bridges Design Build Project Limits	Potential for minor impacts to the northern leopard frog and the common garter snake.	Mitigate for impacts to habitat to the northern leopard frog and the common garter snake by installing any approved BMPs from the SB 40 Wildlife Certification and the Nationwide Clean Water Act Section 404 Permit.	Contractor	Pre-construction	Appendix G: Biological Resources Report, Page 42						
32	Vegetation and Wildlife	Landscaping/Revegetation	Within US 6 Bridges Design Build Project Limits	Short-term disturbance of wildlife and habitat during construction.	Enhance and incorporate impacted landscape areas (irrigated or otherwise) into final design to ensure the existing landscape does not become fragmented.	Contractor	Throughout	Appendix G: Biological Resources Report, Page 37						

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33	Vegetation and Wildlife	Clearing or grading	Within US 6 Bridges Design Build Project Limits	Potential introduction of noxious weeds into areas disturbed by construction.	Implement the Integrated Noxious Weed Management Plan which is provided in the Biological Resources Report (Appendix G), or as otherwise approved by CDOT.	Contractor	Construction	Appendix G: Biological Resources Report, Page 38						
34	Historic and Archaeological Preservation	Impacts to historic structures/Construction activities involving earth moving	Within US 6 Bridges Design Build Project Limits	No impacts are expected. Inadvertent damage to historic properties.	If historic or archaeological materials are encountered or unearthed during construction, work will be halted immediately in the vicinity of the find, and the CDOT archaeologist or cultural resource staff, and the SHPO, will be notified promptly. This process is outlined in Section 107.23 of CDOT's Standard Specifications for Road and Bridge Construction for procedures regarding unexpected discoveries during construction.	Contractor	Construction	Appendix F: Archaeology and Paleontology Technical Report, Page 10						
35	Historic and Archaeological Preservation	Impacts to historic structures/Construction activities involving earth moving	Within US 6 Bridges Design Build Project Limits	No impacts are expected. Inadvertent damage to historic properties.	Follow process outlined in 36 CFR 800.12 regarding Section 106 compliance during emergency situations.	Contractor	Construction	Appendix F: Archaeology and Paleontology Technical Report, Page 10						
36	Historic and Archaeological Preservation	New or additional impacts Impact to West and Southside Interceptor (5DV.10635.6)	West and Southside Interceptor (5DV.10635.6)	Removal of 240 linear feet of a cultural resource	Mitigation for the adverse effect to the West and Southside Interceptor will be mitigated in the future with the execution of the Denver brick-lined sewers Programmatic Agreement. No further coordination is required from the Contractor unless new or additional impacts are discovered.	CDOT/Contractor	Pre-construction	Appendix I: Cultural Resources Technical Report, Page 3						
37	Paleontology	Prior to Construction	Within US 6 Bridges Design Build Project Limits	Denver Formation fossils may be encountered during construction.	Provide the CDOT paleontologist 90% final design plans for examination to determine the extent of impact to the Denver Formation, and the scope, if any, of monitoring required prior to construction.	Contractor	Pre-construction	Appendix F: Archaeology and Paleontology Technical Report, Page 11						
38	Paleontology	Discovery of subsurface bones or other potential fossils.	Within US 6 Bridges Design Build Project Limits	Denver Formation fossils may be encountered during construction.	If subsurface bones or other potential fossils are discovered, the Contractor shall halt work and contact CDOT Staff Paleontologist to assess significance and make recommendations.	Contractor	Construction	Appendix F: Archaeology and Paleontology Technical Report, Page 11						
39	Socio-Economics and Community	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Construction activities impacting local communities	Implement public information strategies such as media advisories, variable message signs, advance signs, a telephone hotline, real-time web cameras, the use of intelligent transportation systems and technology in construction work zones, a construction project website, and alternate route advisories to alert travelers to construction activities and encourage business patronage during construction.	Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-11						
40	Socio-Economics and Community	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Displacement of businesses	Continue discussions with local communities during design and implementation to minimize disruptions.	Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-9						
41	Socio-Economics and Community	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Closure of the westbound (WB) US 6 to Bryant Street ramp	Continue coordination with City and County of Denver; consideration of low-income and minority communities through final design, and implementation.	CDOT/Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-9						
42	Right-of-Way	Property acquisition	Work along Federal and Bryant Streets	Displacement of one business (Parcel No. 200); full purchase of one property (Parcel No. 200); acquisition of sixteen permanent easements or partial acquisitions and eight temporary easements.	Comply with the Uniform Relocation and Assistance of Real Property Acquisition Policies Act of 1970, as amended.	CDOT/Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-9						
43	Right-of-Way	Property acquisition	Work along Federal and Bryant Streets	Displacement of one business (Parcel No. 200); full purchase of one property (Parcel No. 200); acquisition of sixteen permanent easements or partial acquisitions and eight temporary easements.	Prepare a relocation analysis and provide relocation advisory service.	CDOT/Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-9						
44	Section 4(f) and Section 6(f) Resources	New or additional park impacts	Within US 6 Bridges Design Build Project Limits	Additional Section 4(f) or 6(f) impacts	CDOT will be immediately notified for any Section 4(f) or 6(f) impacts greater than those anticipated in ROD2. If additional impacts than those already anticipated cannot be avoided, the Contractor will be responsible for all coordination and mitigation measures.	Contractor	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 17 and 24						
45	Section 4(f)	New or additional impacts Impact to West and Southside Interceptor (5DV.10635.6)	West and Southside Interceptor (5DV.10635.6)	Removal of 240 linear feet of a 4(f) resource	Project meets the criteria for use of the Section 4(f) Evaluation and Approval For Transportation Projects That Have a Net Benefit to a Section 4(f) Property; No feasible and prudent alternatives to the relocation of the sanitary sewer. No further coordination is required from the Contractor unless new or additional impacts are incurred.	CDOT/Contractor	Pre-construction	Appendix K: Section 4(f)/6(f) Technical Report, Page 18						
46	Parks/Recreation Resources	Construction of bicycle/pedestrian bridge	Barnum Park South	Temporary occupancy of park during construction	Ensure that all environmentally sensitive areas have clearly labeled "No Parking and No Staging Areas" on the final plan sheets; replace landscaping that is damaged as a result of construction activities; and provide on-site public notices of construction activities.	Contractor	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 17						
47	Section 4(f) and Section 6(f) Resources	New or additional impacts to Barnum Park North	Barnum Park North	Section 4(f) use of Barnum Park North (0.63-acres)	For any new or additional impacts, minimize acquisition by shifting Federal Boulevard widening to the east to avoid additional impacts to Barnum Park North.	Contractor	Pre-construction	Appendix K: Section 4(f)/6(f) Technical Report, Page 17						
48	Section 4(f) and Section 6(f) Resources	New or additional impacts to Barnum Park North	Barnum Park North	Section 4(f) use of Barnum Park North (0.63-acres)	Relocate trail north of its current location; replace fencing, turf and irrigation system; provide all CDOT commitments included in the IGA with Denver Department of Parks and Recreation; and reconfigure trail near tie-in to the new bicycle/pedestrian bridge landing to provide connectivity.	Contractor/CDOT/CCD	Construction	Appendix K: Section 4(f)/6(f) Technical Report, Page 17						
49	Section 4(f) and Section 6(f) Resources	New or additional impacts to Barnum Park North	Barnum Park North	Section 4(f) use of Barnum Park North (0.63-acres)	Construct a bicycle/ pedestrian bridge over US 6 (west of Federal Boulevard) and trails connecting Barnum Park North and Barnum Park South.	Contractor	Construction	Appendix K: Section 4(f)/6(f) Technical Report, Page 17						

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50	Section 4(f) and Section 6(f) Resources	New or additional impacts to South Platte River Floodplain	South Platte River Floodplain	Section 6(f) conversion of South Platte River Floodplain is estimated to be less than 5 acres	Keep an accurate and detailed record of all impacts to the South Platte River floodplain. These records need to include square footage of the impacts and the value of that land. The Contractor will be required to furnish these records when requested so that CDOT can provide them to CCD, Colorado Parks and Wildlife (CPW) and the National Park Service (NPS) once all impacts are known. If less than or equal to five acres of Section 6(f) land is converted, CDOT to assure that there is an equal value exchange. If greater than five acres is converted, CDOT shall reopen coordination with State Parks to determine next steps.	Contractor/CDOT	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 24							
51	Section 4(f) and Section 6(f) Resources	New or additional impacts to Barnum Park East	Barnum Park East	Section 4(f) use of Barnum Park East (1.64 acres)	Limit use to 1.64 acres; reconstruct park as outlined in the 2012 IGA between CDOT and Denver Department of Parks and Recreation; add 0.4-acres to the east end of park.	Contractor/CDOT/CCD	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 17							
52	Section 4(f) and Section 6(f) Resources	Impacts to Barnum Park East	Barnum Park East	Section 4(f) use of Barnum Park East (1.64 acres)	CCD to make arrangements to provide alternative play locations from permitted field users during seasons that will be disrupted by construction; CDOT to financially compensate CCD for costs associated with this effort.	CDOT/CCD	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 18							
53	Section 4(f) and Section 6(f) Resources	New or additional impacts to Barnum Park North	Barnum Park North	Section 6(f) conversion of Barnum Park North (0.63-acres)	Acquire additional parkland to offset land conversion	CDOT	Throughout	Appendix K: Section 4(f)/6(f) Technical Report, Page 24							
54	Parks/Recreation Resources	Construction staging.	South Platte River Trail	Replacement of the South Platte River Bridge will cause temporary construction impacts.	Contractor to provide mitigation during construction as defined in Book 2 Section 16.2.8 (Trail and Pedestrian Impacts) for the temporary use of the South Platte River Trail.	Contractor	Construction	Appendix K: Section 4(f)/6(f) Technical Report, Page 18							
55	Noise	Nighttime construction.	Adjacent to residential receptors	Nighttime construction noise at residential receptors.	Schedule nosiest construction activities during less noise sensitive times when possible.	Contractor	Construction	Appendix J: Noise Technical Report, Page 8							
56	Noise	Construction	Adjacent to sensitive receptors	Noise Impacts at Barnum Parks (North and East), Frog Hollow Park, Milstein Park, South Platte River Trail, one Motel, and at most first and second row residences located north and south of US6 between Knox Court and Sheridan Boulevard.	Schedule construction between 7am and 9pm, or in accordance with local noise regulations.	Contractor	Construction	Appendix J: Noise Technical Report, Page 8							
57	Noise	Nighttime construction.	Adjacent to residential receptors	Nighttime construction noise at residential receptors.	Denver ordinance requirements shall be adhered to if noise sensitive receptors will be impacted at night.	Contractor	Throughout	Appendix J: Noise Technical Report, Page 8							
58	Aesthetics and Urban Design	Construction of Project Elements	Within US 6 Bridges Design Build Project Limits	Improvements to highway retaining walls, bridges, lighting, signage, slope and ditch paving, medians, signage, and landscapes.	Contractor to use conceptual "kit of parts" in design of aesthetic elements and treatments. A "kit of parts" was developed during the EIS process and is described in the Final EIS and accompanying Aesthetics and Urban Design Report.	Contractor	Pre-construction	Appendix D: Aesthetics and Urban Design Technical Report, Page 30							
59	Aesthetics and Urban Design	Construction of Project Elements	Within US 6 Bridges Design Build Project Limits	Improvements to highway retaining walls, bridges, lighting, signage, slope and ditch paving, medians, signage, and landscapes.	With CDOT involvement, continue coordination with other agencies and apply recommendations from the 2012 Aesthetics Technical Report, Appendix D, during final design and construction.	Contractor	Throughout	Appendix D: Aesthetics and Urban Design Technical Report, Page 30							
60	Energy	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Increase in energy use due to construction; Decrease in fuel use due to decreased traffic congestion.	Consider energy conservation measures including: Implementing traffic management techniques that minimize motorist delays and vehicle idling; keep construction equipment well maintained; locate staging areas as close as possible to the project area; use the closest source for aggregates and other materials.	Contractor	Throughout	FEIS Chapter 4, Section 21, Summary of Impacts, Mitigation Measures, and Monitoring Commitments, Page 4.21-10,11							
61	Hazardous Materials	ROW Acquisition	Construction areas east of I-25	Construction in areas with potential or recognized environmental conditions may require handling and disposition of contaminated groundwater, soil, and fill material.	CDOT is conducting Phase II investigation at two locations 1) the area under/around the BNSF bridge and 2)the area around the location of the Tunnel / I-25 Bridge to further determine if soil/groundwater contamination is present in these areas. CDOT will provide the Contractor the Phase II report recommendations which the Contractor must follow during construction.	CDOT/Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Page 47							
62	Hazardous Materials	Construction	Properties to be acquired	Full or partial acquisition and subsequent construction on six properties with potential or recognized environmental concerns creates the potential to encounter or release hazardous materials.	CDOT recommends that the Contractor conduct additional investigations on sites with known or suspected soil and groundwater contamination that may pose a health or safety risk during construction.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Table 4							
63	Hazardous Materials	Construction	Within US 6 Bridges Design Build Project Limits	Construction in areas with potential or recognized environmental conditions may require handling and disposition of contaminated groundwater, soil, and fill material.	Complete a project specific Materials Management Plan (MMP), to be reviewed and approved by CDOT, that details site-specific standard operating procedures regarding the identification, sampling, handling, and disposal of wastes that could be encountered during construction of this project.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Page 47							
64	Hazardous Materials	Construction	Within US 6 Bridges Design Build Project Limits	Dewatering activities may be required due to excavation and other construction related ground disturbance.	Prepare a dewatering plan and obtain all required dewatering and remediation permits through CDPHE.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Page 46							
65	Hazardous Materials	Construction	Within US 6 Bridges Design Build Project Limits	Construction in areas with potential or recognized environmental conditions may require handling and disposition of contaminated groundwater, soil, and fill material.	Complete a Health and Safety Plan (HASP), to be reviewed and approved by CDOT, to address potential wastes that could be uncovered during construction.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Page 47							
66	Hazardous Materials	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Lead-based paint located on bridge components encountered by workers could cause adverse health effect.	Complete a Health and Safety Plan (HASP), to be reviewed and approved by CDOT, to address potential wastes that could be uncovered during construction.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Pages 19, 47							

Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

Project Information

Project Name: US 6 Bridges Design Build Project
Environmental Project Manager: Jordan Rudel
Project Number: BR 0061-083
Document Type and Date of Approval: US 6 Bridges Design Build Project Reevaluation and Record of Decision (2012)
Project Phase: Final design and construction

										Mitigation Status		Agency Coordination		
Mitigation Commitment #	Mitigation Category	Activity Triggering Mitigation	Location of Activity Triggering Mitigation	Impact from NEPA Document	Commitment From Mitigation Table In Source Document Use Exact Wording from Table in Source Document	Responsible Branch*	Timing/Phase of Construction Mitigation to be Constructed	Source Document of Mitigation Commitment and Page Number	Location of Mitigation(s) in Plan Sheets/Specs Include All Page Numbers that Apply	Date Mitigation Completed	Name of Person Completing Mitigation	Agency Coordination Required? Yes or No	Name of Each Agency	Comments
67	Hazardous Materials	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Lead-based paint located on bridge components encountered by workers could cause adverse health effect.	Avoid sanding, cutting, burning, or otherwise causing the release of lead from paint on these structures. If this is not possible, the lead must be abated properly in accordance with the MMP.	Contractor	Throughout	Appendix H: Hazardous Materials Technical Report, Page 45						
68	Hazardous Materials	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Lead-based paint located on bridge components encountered by workers could cause adverse health effect.	A lead based paint analysis was conducted on the five US 6 bridge structures. Lead based paint was detected on the two bridge structures over the BNSF railroad (see Hazardous Materials Technical Report, Appendix D). Workers on this project must follow CDOT Specification 250 - Environmental, Health, and Safety Management during excavation activities at this site. This must include avoiding sanding, cutting, burning, or otherwise causing the release of lead from paint on these structures. If this is not possible, the lead must be abated properly in accordance with the MMP.	Contractor	Throughout	Appendix H: Hazardous Materials Technical Report, Page 47						
69	Hazardous Materials	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Lead-based paint located on bridge components encountered by workers could cause adverse health effect.	Consult the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Regulation 1926.62 for worker protection prior to work on these structures. Worker health and safety precautions in compliance with OSHA must be followed to limit worker exposure to lead. Work will be completed on these structures in accordance with CDOT Specification 250.04, as well as the MMP and HASP.	Contractor	Throughout	Appendix H: Hazardous Materials Technical Report, Page 47						
70	Hazardous Materials	Bridge Demolition	The replacement of five bridges along US 6: Federal Boulevard, Bryant Street, South Platte River, I-25, and BNSF Railway	Asbestos-containing materials located on bridge components encountered by workers.	An asbestos analysis was conducted on the five US 6 bridge structures. No asbestos was found. If discovered during construction, comply with CDOT Specification 250.07 – Asbestos-Containing Material Management.	Contractor	Pre-construction	Appendix H: Hazardous Materials Technical Report, Pages 47						

* CDOT is ultimately responsible for ensuring that all mitigation commitments are completed.