

# Record of Decision 4: Appendix K

## CDOT Mitigation Tracking

April 2017





# Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

**Project Information**

<b>Project Name:</b> I-25 North CR56 to US392
<b>Environmental Project Manager:</b> Carol Parr
<b>Project Number:</b>
<b>Document Type and Date of Approval:</b> Record of Decision 4
<b>Project Phase:</b> 4th

Mitigation Commitment #	Mitigation Category	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	Mitigation Status		Agency Coordination		Comments
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1	Transportation	Construction Related Traffic and Transportation Impacts	Develop a Traffic Management Plan that identifies a construction-related traffic control plan, work zone management strategies, and contingency plans.	CDOT Engineering/ Contractor	Final design	ROD4, Page 20						
2	Transportation	Construction Related Traffic and Transportation Impacts	During construction, keep open the same number of lanes as are currently open at all times except during off-peak travel times.	CDOT Engineering/ Contractor	During construction	ROD4, Page 20						
3	Transportation	Construction Related Traffic and Transportation Impacts	Develop bridge demolition and detour routes to avoid overloading local streets with detour traffic.	CDOT Engineering/ Contractor	Final design	ROD4, Page 20						
4	Transportation	Construction Related Traffic and Transportation Impacts	Limit peak-period ramp closures to low-volume interchanges.	Contractor	During construction	ROD4, Page 20						
5	Transportation	Construction Related Traffic and Transportation Impacts	Limit closure of high-volume ramps to nights or weekends.	Contractor	During construction	ROD4, Page 20						
6	Transportation	Construction Related Traffic and Transportation Impacts	Maintain access to local businesses and residences.	Contractor	During construction	ROD4, Page 20						
7	Social Conditions	Residential relocations	Ensure that acquisition or relocation of property as a result of this project will comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act), as amended, and other applicable relocation assistance programs.	CDOT Right of Way	During property acquisition	ROD4, Page 25						
8	Social Conditions	Ability for all economic groups to use toll facilities	Seek ways to make tolling more equitable. For example, consider payment options to enable the broadest opportunity for all economic groups to use toll facilities. Provide alternate payment options so that persons who do not have a credit card can still participate in the tolled express lanes. Also consider including toll replenishment using cash or employer-based payroll deductions in the tolling program.	CDOT engineering	Prior to opening	ROD4, Page 25						
9	Economic Conditions	Business relocations and impacts	Ensure that acquisition or relocation of property as a result of this project will comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act), as amended, and other applicable relocation assistance programs.	CDOT Right of Way	During property acquisition	ROD4, Page 27						
10	Economic Conditions	During construction, access to local businesses may be temporarily disrupted or a minor delay may occur that could negatively impact the performance of some of the businesses	Provide new access for properties where existing accesses are removed. Although some businesses may have changes in access due to the project, CDOT will work to ensure that all business are provided with some form of access. To avoid disruption of business activities during construction, provide the new access before the existing access is removed.	CDOT Engineering/ Contractor	During construction	ROD4, Page 27						
11	Economic Conditions	During construction, access to local businesses may be temporarily disrupted or a minor delay may occur that could negatively impact the performance of some of the businesses	Develop a traffic control plan to minimize interference with traffic flow from construction equipment and activities. CDOT will provide advance notice to emergency service providers, local businesses, rail operators, and residents with regard to road delays, access, and special construction activities. Make these notifications available via radio and public announcements, newspaper notices, onsite signage, and CDOT's website.	CDOT Public Involvement/ Contractor	During construction	ROD4, Page 27						
12	Economic Conditions	During construction, access to local businesses may be temporarily disrupted or a minor delay may occur that could negatively impact the performance of some of the businesses	Stage construction activities and vary work hours to minimize disruption to traffic and local businesses. Throughout the construction phase, preserve access for each affected business.	CDOT Engineering/ Contractor	During construction	ROD4, Page 27						
13	Economic Conditions	During construction, access to local businesses may be temporarily disrupted or a minor delay may occur that could negatively impact the performance of some of the businesses	Construct retaining walls along I-25, where feasible, to minimize impacts to commercial development.	CDOT Engineering/ Contractor	During construction	ROD4, Page 27						
14	Right-of-Way Acquisitions and Relocations	Five business and four residential relocations	Ensure that relocation of residents and businesses as a result of this project will comply with the Uniform Act, as amended, and other applicable relocation assistance programs.	CDOT Right of Way	During property acquisition	ROD4, Page 30						
15	Right-of-Way Acquisitions and Relocations	233.42 acres of acquisition	Ensure that acquisition of properties as a result of this project will comply with the Uniform Act, as amended.	CDOT Right of Way	During property acquisition	ROD4, Page 30						
16	Right-of-Way Acquisitions and Relocations	Temporary easement	Ensure that temporary easements of those property interests required for the project during construction will comply fully with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended and other applicable relocation assistance programs.	CDOT Right of Way	During property acquisition	ROD4, Page 30						
17	Air Quality	Localized dust and other emissions during construction	Prepare an air quality mitigation plan describing all feasible measures to reduce air quality emissions from the project. CDOT staff must review and endorse construction mitigation plans prior to work on a project site.	Contractor	During construction	ROD4, Page 32						
18	Air Quality	Localized dust and other emissions during construction	Ensure that all construction equipment is properly tuned and maintained by the contractor.	Contractor	During construction	ROD4, Page 32						
19	Air Quality	Localized dust and other emissions during construction	Minimize equipment idle time to 10 minutes.	Contractor	During construction	ROD4, Page 32						
20	Air Quality	Localized dust and other emissions during construction	Chip or deliver vegetation to waste energy facilities. Do not open burn removed vegetation.	Contractor	During construction	ROD4, Page 32						
21	Air Quality	Localized dust and other emissions during construction	Utilize existing power sources or clean fuel generators rather than temporary power generators.	Contractor	During construction	ROD4, Page 32						
22	Air Quality	Localized dust and other emissions during construction	Operate equipment affecting traffic mainly during off-peak hours.	Contractor	During construction	ROD4, Page 32						
23	Air Quality	Localized dust and other emissions during construction	Minimize obstructions of through-traffic lanes. Utilize a flag person to guide traffic properly to minimize congestion and to ensure safety.	Contractor	During construction	ROD4, Page 32						
24	Air Quality	Localized dust and other emissions during construction	Ensure that an operational water truck is onsite at all times. Apply water to control dust as needed to prevent dust impacts both onsite and offsite.	Contractor	During construction	ROD4, Page 32						
25	Air Quality	Localized dust and other emissions during construction	Use wetting/chemical inhibitors for dust control.	Contractor	During construction	ROD4, Page 32						
26	Air Quality	Localized dust and other emissions during construction	Stabilize and cover stockpile areas.	Contractor	During construction	ROD4, Page 32						
27	Air Quality	Localized dust and other emissions during construction	Remove soil and other materials from paved streets.	Contractor	During construction	ROD4, Page 32						

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28	Noise	Elevated noise levels at Mountain Range Shadows Subdivision	Construct new traffic noise barriers for the Mountain Range Shadows neighborhood (12 feet to 20-foot barrier)	Contractor	During construction	ROD4, Page 36						
29	Noise	Elevated noise levels at Mountain Range Shadows Subdivision	Perform a Benefitted Receptor Preference Survey for the recommended noise barriers	CDOT	Prior to final RFP	ROD4, Page 36						
30	Noise	Construction noise	Ensure exhaust systems on equipment are in good working order by performing maintenance on a regular basis and maintenance inspections performed by the project manager.	Contractor	During construction	ROD4, Page 36						
31	Noise	Construction noise	Use properly designed engine enclosures and intake silencers where appropriate.	Contractor	During construction	ROD4, Page 36						
32	Noise	Construction noise	Ensure new equipment meets new product noise emission standards.	Contractor	During construction	ROD4, Page 36						
33	Noise	Construction noise	Locate stationary equipment as far from sensitive receivers as possible.	Contractor	During construction	ROD4, Page 36						
34	Noise	Construction noise	Comply with all applicable local noise ordinances and regulations	Contractor	During construction	ROD4, Page 36						
35	Noise	Construction noise	Use standard mitigation measures where feasible	Contractor	During construction	ROD4, Page 36						
36	Noise	Construction noise	Prepare a Noise Mitigation Plan	Contractor	Final design	ROD4, Page 36						
37	Noise	Construction noise	Conduct construction activities in noise-sensitive areas during hours that are least disturbing to adjacent and nearby residents	Contractor	During construction	ROD4, Page 36						
38	Water Quality	Increased impervious surface area Potential for temporary water quality impacts during construction Potential to encounter groundwater	<p>A combination of mitigation measures consisting of permanent non-structural and temporary best management practices (BMPs) will be implemented in the study area, in compliance with the Clean Water Act and MS4 permit requirements.</p> <ul style="list-style-type: none"> <li>• Identify and build extended detention basins as the primary structural BMP for this project.</li> <li>• Develop a Stormwater Management Plan (SWMP) during design, to be implemented during construction and updated as needed.</li> <li>• Minimize in-stream activity.</li> <li>• Prepare a Spill Prevention Plan.</li> <li>• Follow CDOT's specifications for managing stormwater at a construction site (currently specifications 107.25, 212, 213, 208, and 216).</li> <li>• Implement and maintain construction BMPs in compliance with the CDPHE general construction permit. Construction plans must adhere to a stormwater management plan (Section 402, Clean Water Act, CDPHE Regulation 61).</li> <li>• Establish vegetation or other erosion control techniques to prevent sediment loading in compliance with the general stormwater construction permit.</li> <li>• Phase construction activities to minimize effects associated with large areas of exposed ground and with soil compaction from heavy machinery use.</li> <li>• If groundwater is encountered during activities associated with excavations for caisson/retaining walls, discharge groundwater only when the following conditions are met:                             <ul style="list-style-type: none"> <li>- The source is groundwater and/or groundwater combined with stormwater that does not contain pollutants in concentrations exceeding the state groundwater standards in Regulations 5 CCR 1002-41 and 42.</li> <li>- Discharge is in accordance with CDPHE Water Quality Control Division, Water Quality, Policy-27, Low-Risk Discharges, September 2009.</li> <li>- The source is identified in the SWMP.</li> <li>- Dewatering BMPs are included in the SWMP.</li> <li>- Ensure these discharges do not leave the site as surface runoff or enter surface waters.</li> </ul> </li> <li>• If these conditions are not met, then a separate Clean Water Act Section 402 Construction Dewatering Permit or Individual Construction Dewatering Permit must be obtained from the CDPHE's Water Quality Control Division.</li> <li>• Manage dewatering groundwater brought to surface in accordance with Section 107.25 of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011).</li> </ul>	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 37						
39	Wetlands	Total direct impacts to 5.24 acres of wetlands (4.05 acres of palustrine emergent wetlands and 1.19 acres of palustrine scrub/shrub wetlands), and 0.86 acre of jurisdictional open waters	Follow all general and special conditions from the Section 404 Permit already obtained (see Appendix D). This includes construction of wetland mitigation (already completed) and notification to the USACE prior to construction.	CDOT Environmental/ Contractor	Pre-construction/ during construction	ROD4, Page 40						
40	Wetlands	Indirect wetland effects	During construction, use Best Management Practices (BMPs) to avoid indirect construction impacts to wetlands. Store materials and equipment a minimum of 50 feet from wetlands, drainages, and ditches that could carry toxic materials into wetlands. Use construction fencing and appropriate sediment control BMPs to mark wetland boundaries and sensitive habitats during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 40						
41	Wetlands	Indirect wetland effects	Place sediment and erosion control during all phases of construction. They must remain in place until all disturbed areas have reached 70 percent of preconstruction vegetative cover.	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 40						
42	Floodplains	Downstream flood risks can increase due to the improved conveyance of the stormwaters	Assess downstream areas at the time of preliminary and final design by using detailed hydraulic methods.	CDOT Environmental/ Contractor	Final design	ROD4, Page 41						
43	Floodplains	Vegetation and wetland impacts within Big Thompson River floodplains	Control sediment and erosion by implementing appropriate structural and non-structural BMPs during each phase of construction to avoid potential pollutants from entering state waters.	CDOT Environmental/ Contractor	During construction	ROD4, Page 41						
44	Floodplains	Vegetation and wetland impacts within Big Thompson River floodplains	Revegetate enlarged overbank areas with a diverse planting to enhance the habitat	CDOT Environmental/ Contractor	Post construction	ROD4, Page 41						
45	Floodplains	Vegetation and wetland impacts within Big Thompson River floodplains	Seed and revegetate disturbed land in accordance with current CDOT standards and specifications.	CDOT Environmental/ Contractor	During construction	ROD4, Page 41						
46	Floodplains	Vegetation and wetland impacts within Big Thompson River floodplains	Meet Senate Bill (SB) 40 requirements for applicable areas.	CDOT Environmental/ Contractor	Pre-construction/ during construction	ROD4, Page 41						
47	Floodplains	Vegetation and wetland impacts within Big Thompson River floodplains	Conduct wetland mitigation in accordance with the mitigation approach described in Section 6.8.2.	CDOT Environmental/ Contractor	During construction	ROD4, Page 41						
48	Floodplains	Floodplain or floodway encroachment	Use the 100-year FEMA design flows for freeboard determinations, scour design, and to ensure that flow velocities are acceptable	CDOT Environmental/ Contractor	Final Design	ROD4, Page 41						

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49	Floodplains	Floodplain or floodway encroachment	Use the 500-year design flows to further assess the scour design and set the depths of piles or caissons	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
50	Floodplains	Floodplain or floodway encroachment	Assess impacts to downstream areas during preliminary and final design by using the guidelines described in Section 3.9 Floodplains in the North I-25 Final EIS.	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
51	Floodplains	Floodplain or floodway encroachment	Base design flows on the current level of development.	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
52	Floodplains	Floodplain or floodway encroachment	Follow the CDOT Policy, to obey the Nature Flow Rule of Colorado and hold others to the same standard (CDOT Drainage Design Manual, 2004, sec. 2.5.2 and 12.1.1).	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
53	Floodplains	Floodplain or floodway encroachment	Consider the maximum allowable backwater as allowed by FEMA	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
54	Floodplains	Floodplain or floodway encroachment	Determine degradation, aggregation, and scour. Select adequate counter measures using criteria established by the National Cooperative Highway Research Program Report 568 (TRB, 2006)	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
55	Floodplains	Floodplain or floodway encroachment	Minimize disruption to the ecosystem	CDOT Environmental/ Contractor	During construction	ROD4, Page 42						
56	Floodplains	Floodplain or floodway encroachment	Consider costs for construction and maintenance	CDOT Environmental/ Contractor	Final Design	ROD4, Page 42						
57	Floodplains	Floodplain or floodway encroachment	Consider a bridge deck drainage system that controls seepage at joints. If possible, pipe bridge deck drains to a water quality feature before being discharged into a floodplain	CDOT Environmental/ Contractor	During construction	ROD4, Page 42						
58	Floodplains	Floodplain or floodway encroachment	Comply with federal and state agencies and make every consideration towards local agency requirements when designing and be consistent with existing watershed and floodplain management programs.	CDOT Environmental/ Contractor	During construction	ROD4, Page 42						
59	Floodplains	Floodplain or floodway encroachment	Design all encroachment in the floodway portion of the floodplain with compensatory conveyance, certified to cause no rise in the Base Flood Elevation, and documented in an approved floodplain development permit to the local agency administering NFIP standards in the affected reach.	CDOT Engineering/ Contractor	Final Design	ROD4, Page 42						
60	Floodplains	Floodplain or floodway encroachment	Be prepared to provide CLOMRs pre-construction and LOMRs post-construction using certified as-built information from ground survey.	Contractor	Pre-construction	ROD4, Page 42						
61	Floodplains	Floodplain or floodway encroachment	Document all encroachment in the flood fringe portion of the floodplain in an approved floodplain development permit to the local agency administering NFIP standards in the affected reach.	Contractor	Pre-construction	ROD4, Page 42						
62	Vegetation	Vegetation removal	Minimize the amount of disturbance and limit the amount of time that disturbed locations are allowed to be non-vegetated. Follow CDOT standard specifications for the amount of time that disturbed areas are allowed to be non-vegetated.	Contractor	During construction	ROD4, Page 43						
63	Vegetation	Vegetation removal	Avoid existing trees, shrubs, and vegetation to the maximum extent possible, especially wetlands and riparian plant communities. Coordinate with the CDOT landscape architect before construction to determine the types of vegetation that will be protected during construction.	Contractor	Pre-construction/ during construction	ROD4, Page 43						
64	Vegetation	Vegetation removal	Salvage weed-free topsoil for use in seeding.	Contractor	During construction	ROD4, Page 43						
65	Vegetation	Vegetation removal	Implement temporary and permanent erosion control measures to limit erosion and soil loss. Use erosion control blankets on steep, newly seeded slopes to control erosion and to promote the establishment of vegetation. Roughen slopes at all times.	Contractor	During construction	ROD4, Page 43						
66	Vegetation	Vegetation removal	Revegetate all disturbed areas with native grass and forb species. Apply seed, mulch, and mulch tackifier in phases throughout construction.	Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 43						
67	Vegetation	Vegetation removal	Develop an acceptable revegetation plan with the CDOT landscape architect that is also acceptable to municipalities within their jurisdictional areas.	Contractor	During construction	ROD4, Page 43						
68	Vegetation	Vegetation removal	Develop revegetation success criteria based on consultation with USFWS and monitor revegetated sites for at least three growing seasons following habitat restoration and enhancement activities to ensure those success criteria are achieved.	CDOT	Pre-construction	ROD4, Page 43						
69	Vegetation	Vegetation removal	Obtain SB 40 (33-5-101-107, CRS 1973, as amended) certification from CPW for construction in "...any stream or its bank tributaries..."	Contractor	Pre-construction	ROD4, Page 43						
70	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Include noxious weed mapping in the construction documents, along with appropriate weed control methods.	Contractor	Pre-construction	ROD4, Page 45						
71	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Inspect highway right-of-way areas periodically during construction and during post-construction weed monitoring for invasion of noxious weeds.	Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 45						
72	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Include weed management measures for the removal of heavily infested topsoil, herbicide treatment of lightly infested topsoil, and other herbicide and/or mechanical treatments, limiting disturbance areas, phased seeding in accordance with CDOT seeding seasons, and monitoring during and after construction.	Contractor	During construction/ post-construction	ROD4, Page 45						
73	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Select appropriate herbicides and time herbicide spraying in and adjacent to sensitive areas, such as wetlands and riparian areas.	Contractor	During construction	ROD4, Page 45						

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74	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Use certified weed-free hay and/or mulch in all revegetated areas.	Contractor	During construction	ROD4, Page 45						
75	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Use only fertilizers that meet CDOT Standard Specification 212.	Contractor	During construction	ROD4, Page 45						
76	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Incorporate an Integrated Noxious Weed Management Plan into the project design and implement it during construction.	Contractor	During construction	ROD4, Page 45						
77	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Use only native species to revegetate sites disturbed by construction activities. Coordinate native plant species used for revegetation with agencies and CDOT specialists.	Contractor	During construction	ROD4, Page 45						
78	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Per the Weed Free Forage Act, inspect and regulate materials used for revegetation in accordance with provisions of the Weed Free Forage Act, Title 35, Article 27.5, CRS.	Contractor	During construction	ROD4, Page 45						
79	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	The project's Noxious Weed Management Supervisor must inspect imported topsoil. Do not use the imported topsoil on the project if it is determined to be contaminated with weeds, or if it cannot be inspected properly.	Contractor	During construction	ROD4, Page 45						
80	Noxious Weeds	Construction activities would increase the potential for the spread and establishment of noxious weeds in areas where soil is disturbed.	Keep equipment on designated roadways and out of weed-infested areas until the areas are treated. Clean all equipment of all soil and vegetative plant parts before its arrival at the project site.	Contractor	During construction	ROD4, Page 45						
81	Wildlife	Raptor nests will be directly and indirectly impacted by construction.	Conduct a raptor nest survey prior to project construction to identify raptor nests and nesting activity in the vicinity of the proposed project.	Contractor	Pre-construction	ROD4, Page 47						
82	Wildlife	Raptor nests will be directly and indirectly impacted by construction.	Comply with the buffer zones and seasonal restrictions recommended by CPW to minimize impacts to breeding and nesting raptors (CPW, 2008).	Contractor	Pre-construction/ during construction	ROD4, Page 47						
83	Wildlife	Raptor nests will be directly and indirectly impacted by construction.	Conduct a burrowing owl survey prior to construction using "Recommended Survey Protocol and Action to Protect Burrowing Owls" by CPW.	Contractor	Pre-construction	ROD4, Page 47						
84	Wildlife	Raptor nests will be directly and indirectly impacted by construction.	If raptor nests will be impacted by the proposed project, develop specific mitigation measures for impacts to nesting raptors in coordination with the CPW and the U.S. Fish and Wildlife Service (USFWS) prior to construction. If disturbance of raptor nests is unavoidable, construct artificial nests in suitable habitat or enhance prey habitat. Construct artificial nests in the same general area as impacts.	Contractor	Pre-construction/ during construction	ROD4, Page 47						
85	Wildlife	Migratory bird nests could be impacted by removal of vegetation.	Follow Standards and Specifications Section 240: Protection of Migratory Birds, to meet requirements of the Migratory Bird Treaty Act (MBTA).	Contractor	Pre-construction/ during construction	ROD4, Page 47						
86	Wildlife	Migratory bird nests could be impacted by removal of vegetation.	Complete tree trimming and/or removal activities before birds begin to nest or after the young have fledged. In Colorado, most nesting and rearing activities occur between April 1 and August 31. However, since some birds nest as early as February, conduct a nesting bird survey by a biologist before any tree trimming or removal activities begin.	Contractor	During construction	ROD4, Page 48						
87	Wildlife	Migratory bird nests could be impacted by removal of vegetation.	Complete bridge or box culvert work that may disturb nesting birds before birds begin to nest or after the young have fledged. No bridge or box culvert work will take place between April 1 and August 31. If work activities are planned between these dates, remove nests (before nesting begins) and take appropriate measures to assure no new nests are constructed.	Contractor	During construction	ROD4, Page 48						
88	Wildlife	Migratory bird nests could be impacted by removal of vegetation.	Complete clearing and grubbing of vegetation that may disturb ground nesting birds before birds begin to nest or after the young have fledged. If work activities are planned between April 1 and August 31, remove vegetation and/or trim it to a height of six inches or less prior to April 1. After vegetation has been removed and/or trimmed, implement appropriate measures, i.e., repeated mowing/trimming, to assure vegetation does not grow more than six inches.	Contractor	During construction	ROD4, Page 48						
89	Wildlife	Wildlife crossing at Big Thompson River will be temporary impacted	Maximize use of movement corridors by wildlife by creating bridge spans and culverts that have the following features: a minimum clearance of 10 feet and width of 20 feet for deer and a minimum "openness ratio" of 0.75.	Contractor	Final design	ROD4, Page 48						
90	Wildlife	Wildlife crossing at Big Thompson River will be temporary impacted	Place shrubs and vegetative cover at bridge underpass openings to attract wildlife and provide a "funnel effect."	Contractor	Post-construction	ROD4, Page 48						
91	Wildlife	Wildlife crossing at Big Thompson River will be temporary impacted	Provide ledges or shelves within structure that periodically convey water to create passage alternatives during high water.	Contractor	Final design	ROD4, Page 48						
92	Wildlife	Wildlife crossing at Big Thompson River will be temporary impacted	Do not place trails near wildlife crossing structures to avoid human disturbance of wildlife.	Contractor	Final design	ROD4, Page 48						
93	Wildlife	Wildlife crossing at Big Thompson River will be temporary impacted	Maximize use of bridges and culverts by wildlife, where practical, by incorporating other design elements, including: • Do not place lighting near the crossing structures. • Keep roadside vegetation height to a minimum.	Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 48						
94	Wildlife	Sensitive wildlife habitat will be impacted from removal of vegetation to construct a bridge over the Big Thompson River	Mitigate impacts in wetlands and riparian areas to sensitive wildlife habitat along Big Thompson River.	Contractor	During construction	ROD4, Page 48						
95	Wildlife	Sensitive wildlife habitat will be impacted from removal of vegetation to construct a bridge over the Big Thompson River	Minimize impacts at wildlife crossings to sensitive wildlife habitat.	Contractor	During construction	ROD4, Page 48						

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96	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Maintain and/or create riffle and pool complexes.	Contractor	Final design/ pre-construction/ during construction/ post-construction	ROD4, Page 48						
97	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Maintain natural stream bottoms.	Contractor	During construction	ROD4, Page 48						
98	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Partially bury culverts; cover the bottom with gravel/sand and ensure there is a low gradient.	Contractor	During construction	ROD4, Page 49						
99	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Replace culverts targeted for replacement with those of equal or greater size.	Contractor	During construction	ROD4, Page 49						
100	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Do not incorporate grates, impact dissipaters, or any other features into culvert design that would impede fish movement.	Contractor	During construction	ROD4, Page 49						
101	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	To avoid erosion, induced siltation, and sedimentation, place sediment/erosion control BMPs during each phase of construction. Upon completion of slope, place seed in combination with mulch/mulch tackifier or erosion control blankets within the limits set in Section 208 of CDOT specifications.	Contractor	During construction	ROD4, Page 49						
102	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Use only erosion control blankets that will be "wildlife friendly," consisting of 100 percent biodegradable materials.	Contractor	During construction	ROD4, Page 49						
103	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Limit access points to streams during construction to minimize degradation of the banks.	Contractor	During construction	ROD4, Page 49						
104	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Do not create any new fish passage barriers.	Contractor	During construction	ROD4, Page 49						
105	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Remove or redesign existing drop structures that create a barrier to fish movements, where possible.	Contractor	During construction	ROD4, Page 49						
106	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Comply with Colorado SB 40, which requires all state agencies to obtain wildlife certification from CPW when the agency plans construction in any stream or its bank or tributaries.	Contractor	During construction	ROD4, Page 49						
107	Wildlife	Aquatic and upland habitats will be directly impacted from removal of vegetation prior to construction	Implement mitigation measures outlined in the water quality section (see Section 6.7.3) for aquatic habitats.	Contractor	During construction	ROD4, Page 49						
108	Wildlife	Black-tailed prairie dogs will be directly impacted by construction	Resurvey prairie dog colonies prior to construction. In areas where avoidance of prairie dogs is not possible, follow CDOT's Impacted BTPD Policy. Carry out any prairie dog relocation or removal activities in accordance with CRS 35-7-203, as well as any other applicable laws or regulations, and with close coordination with CPW.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 49						
109	Wildlife	Black-tailed prairie dogs will be directly impacted by construction	Place silt fence to prohibit any additional BTPDs from entering the construction site.	CDOT Environmental/ Contractor	Pre-construction/ during construction	ROD4, Page 49						
110	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Incorporate an integrated weed management plan into project design and implement it during construction to control the infestation and spread of noxious weeds.	Contractor	Pre-construction	ROD4, Page 53						
111	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Use visible barriers to limit the area of construction.	Contractor	During construction	ROD4, Page 53						
112	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Stockpile construction materials in bare areas rather than on top of existing vegetation in known occupied and suitable habitats.	Contractor	During construction	ROD4, Page 53						
113	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Inform construction workers of the reasons for and importance of limiting impacts to vegetated habitat outside the work area in habitats known to be occupied by listed species.	Contractor	During construction	ROD4, Page 53						
114	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Supervise work on a daily basis to ensure that conditions established by the USFWS are met.	Contractor	During construction	ROD4, Page 53						
115	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Implement water quality BMPs to prevent sediment loading and impacts to CBP, ULTO, and PMJM habitats.	Contractor	During construction	ROD4, Page 53						
116	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Implement concurrent revegetation during construction to the maximum extent practicable.	Contractor	During construction	ROD4, Page 53						

# Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

**Project Information**

<b>Project Name:</b> I-25 North CR56 to US392
<b>Environmental Project Manager:</b> Carol Parr
<b>Project Number:</b>
<b>Document Type and Date of Approval:</b> Record of Decision 4
<b>Project Phase:</b> 4th

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117	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Provide a report to the USFWS that includes photographic documentation of site conditions prior to and at the completion of construction.	Contractor	Pre-construction/post-construction	ROD4, Page 53						
118	Threatened and Endangered & State Sensitive Species	Potential Impacts to federal-listed species	Employ conservation measures in accordance with the Short Grass Prairie Initiative Biological Opinion for sensitive, non-listed species, including black-tailed prairie dog, Burrowing Owl, native fish, and mussels (including brassy minnow, common shiner, plains minnow, and cylindrical papershell), and Northern leopard frog.	Contractor	During construction	ROD4, Page 53						
119	Threatened and Endangered & State Sensitive Species	Potential Impacts to Colorado butterfly plant	Pre-construction habitat assessments and/or surveys for the CBP will be conducted during the survey season just prior to construction, or in accordance with the USFWS survey protocol at the time of construction. Should the plant occur within the construction footprint, specific conservation measures will be developed during site-specific consultation.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 54						
120	Threatened and Endangered & State Sensitive Species	Potential Impacts to Colorado butterfly plant	CDOT's Shortgrass Prairie Initiative addresses impacts to the CBP and the ULTO in portions of the project area. In those portions of the project area covered by the Shortgrass Prairie Initiative, no additional conservation measures for the CBP or ULTO will be necessary provided that the Shortgrass Prairie Initiative is still in effect when construction begins.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 54						
121	Threatened and Endangered & State Sensitive Species	Potential Impacts to Ute ladies'-tresses orchid and CBP	CDOT's Shortgrass Prairie Initiative addresses impacts to the CBP and the ULTO in portions of the project area; therefore no. In those portions of the project area covered by the Shortgrass Prairie Initiative, no additional conservation measures for the CBP or ULTO will be necessary provided that the Shortgrass Prairie Initiative is still in effect when construction begins.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 54						
122	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Conduct pre-construction habitat assessments and/or trapping surveys for the PMJM where appropriate.	Contractor	Pre-construction	ROD4, Page 54						
123	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Limit impacts to occupied PMJM habitat at the Little Thompson and Big Thompson rivers and any areas found to be occupied by the PMJM by future surveys to their inactive season (November through April).	Contractor	During construction	ROD4, Page 54						
124	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Incorporate current lighting and standards (e.g., Dark Skies) within and near PMJM habitat at the time of design to reduce lighting impacts.	Contractor	During construction	ROD4, Page 54						
125	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	During construction, minimize nighttime work within 0.25 mile of PMJM habitat.	Contractor	During construction	ROD4, Page 54						
126	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Mitigation will occur at a 3:1 ratio for permanent impacts and a 1:1 ratio for temporary impacts. Where impacts to occupied PMJM habitat are unavoidable, compensatory mitigation to create suitable PMJM habitat will occur in the same drainage within CDOT right of way. If the right of way is limited, CDOT will enter into an agreement with CPW to mitigate the remainder of PMJM impacts on CPW property located on the southwest quadrant of I-25 and the Big Thompson River.	Contractor	During construction	ROD4, Page 54						
127	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Mix riprap with finer grained material to avoid settling. Cover riprap with approximately 12 inches of soil and plant it with woody and herbaceous vegetation to not reduce the overall amount of habitat available to PMJM.	Contractor	During construction	ROD4, Page 54						
128	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Follow USFWS consultation and PBO for restoration and revegetation of the disturbed area	Contractor	During construction	ROD4, Page 54						
129	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Stockpile construction materials in bare areas rather than on top of existing vegetation in known occupied and high potential habitats.	Contractor	During construction	ROD4, Page 54						
130	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Inform construction workers of the reasons for and importance of limiting impacts to vegetated habitat outside the work area in known occupied habitat.	Contractor	During construction	ROD4, Page 54						
131	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Supervise work on a daily basis to ensure that conditions established by the USFWS are met.	Contractor	During construction	ROD4, Page 54						
132	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Implement concurrent revegetation during construction to the maximum extent practicable.	Contractor	During construction	ROD4, Page 54						
133	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Provide a report to the USFWS that includes photographic documentation of site conditions prior to and at the completion of construction.	Contractor	During construction	ROD4, Page 54						



# Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

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134	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Develop the specifics of the conservation measures in coordination with the USFWS during final design and prior to construction. Document the final conservation measures, including plans and specifications for creation of and enhancements to PMJM habitat that could result in an increase in habitat.	Contractor	During construction	ROD4, Page 54						
135	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Report any inadvertent PMJM mortalities during construction as specified in current trapping guidelines. Report all relevant information within 24 hours and subsequently submit a completed Injury/Mortality Documentation Report to the USFWS, Ecological Services Colorado Field Office or the USFWS Division of Law Enforcement in Lakewood, Colorado (telephone 720-981-2777).	Contractor	During construction	ROD4, Page 54						
136	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	In the unlikely event that a PMJM (dead, injured, or otherwise) is located during construction, contact the Colorado Field Office of the USFWS immediately to identify additional measures, as appropriate, to minimize impacts to PMJM.	Contractor	During construction	ROD4, Page 54						
137	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	Visible barriers will be used to limit the area of construction within occupied habitat.	Contractor	During construction	ROD4, Page 55						
138	Threatened and Endangered & State Sensitive Species	Potential Impacts to Preble's Meadow Jumping Mouse	CDOT would employ conservation measures to minimize impacts during construction. These measures would include: <ul style="list-style-type: none"> <li>• Stockpile construction materials in bare areas rather than on top of existing vegetation in known occupied and high potential habitats.</li> <li>• Inform construction workers of the reasons for and importance of limiting impacts to vegetated habitat outside the work area in known occupied habitat.</li> <li>• Supervise work on a daily basis to ensure that conditions established by the USFWS are met.</li> <li>• Implement concurrent revegetation during construction to the maximum extent practicable.</li> <li>• Provide a report to the USFWS that includes photographic documentation of site conditions prior to and at the completion of construction.</li> <li>• Coordinate with the USFWS prior to mitigation implementation. When CDOT has final design, CDOT will submit the final location and quantity of impacts and the location and quantity of mitigation to the USEWS for coordination and tracking.</li> </ul>	Contractor	During construction	ROD4, Page 55						
139	Threatened and Endangered & State Sensitive Species	Direct impacts to Black-Tailed Prairie Dogs	Resurvey prairie dog colonies prior to construction. In areas where avoidance of prairie dogs is not possible, follow CDOT's Impacted Black-tailed Prairie Dog Policy. Carry out any prairie dog relocation or removal activities in accordance with CRS 35-7-203, as well as any other applicable laws or regulations. Place silt fence to prohibit any additional BTPDs from entering the construction site.	Contractor	Pre-construction	ROD4, Page 55						
140	Threatened and Endangered & State Sensitive Species	Potential Impacts to Bald Eagle	Conduct a raptor nest survey prior to construction to identify Bald Eagle nests in the regional study area. If an active Bald Eagle nest is found within 0.5 mile of the regional study area, establish the buffers and seasonal restrictions recommended by CPW during construction to avoid nest abandonment.	Contractor	Pre-construction	ROD4, Page 55						
141	Threatened and Endangered & State Sensitive Species	Potential Impacts to Bald Eagle	Ensure that no construction occurs within 0.25 mile of active Bald Eagle nocturnal roosts between November 15 and March 15. If perch or roost trees are removed during construction, replace them at a 2:1 ratio with native cottonwood trees.	Contractor	During construction	ROD4, Page 55						
142	Threatened and Endangered & State Sensitive Species	Potential Impacts to Bald Eagle	Incorporate the latest technology at the time of construction for all overhead lighting at the intersection of I-25 and SH 392 near Fossil Creek Reservoir to control light leakage and direct lighting away from Bald Eagles roosting and nesting at the reservoir.	Contractor	During construction	ROD4, Page 55						
143	Threatened and Endangered & State Sensitive Species	Potential Impacts to Bald Eagle	Provide mitigation for impacts to riparian habitats used by foraging Bald Eagles.	Contractor	During construction	ROD4, Page 55						
144	Threatened and Endangered & State Sensitive Species	Potential Impacts to Burrowing Owls	Burrowing Owl surveys will be conducted prior to any work in prairie dog colonies between March 15 and October 31. If Burrowing Owls are present, prairie dog removal will be scheduled to occur outside this time period. If Burrowing Owls are found within the construction footprint during preconstruction surveys, nests will be left undisturbed and additional avoidance measures will be developed in coordination with CPW. Direct impacts to Burrowing Owls will be avoided by covering or destroying prairie dog burrows prior to construction (prior to March 15).	Contractor	Pre-construction	ROD4, Page 56						
145	Threatened and Endangered & State Sensitive Species	Potential Impacts to Northern Leopard Frog and Common Garter Snake	Conduct Burrowing Owl surveys prior to any work in prairie dog colonies between March 15 and October 31. If Burrowing Owls are present, schedule prairie dog removal to occur outside this time period. If Burrowing Owls are found within the construction footprint during preconstruction surveys, leave nests undisturbed and develop additional avoidance measures in coordination with CPW. Avoid direct impacts to Burrowing Owls by covering or destroying empty prairie dog burrows prior to construction (prior to March 15).	Contractor	Pre-construction	ROD4, Page 56						
146	Threatened and Endangered & State Sensitive Species	Potential Impacts to State Threatened, Endangered, and Special Concern Aquatic Species	To offset temporary impacts to aquatic species from habitat disturbance, restore aquatic habitats after construction activities have ceased. The following design measures will mitigate potential impacts to aquatic species, including native fish: <ul style="list-style-type: none"> <li>• Maintain and/or create riffle and pool complexes.</li> <li>• Maintain natural stream bottoms.</li> <li>• Partially bury culverts; cover the bottom with gravel/sand and ensure there is a low gradient.</li> <li>• Replace culverts targeted for replacement with those of equal or greater size.</li> <li>• Do not incorporate grates, impact dissipaters, or any other features into culvert design that would impede fish movement.</li> <li>• Place sediment/erosion control BMPs during each phase of construction to avoid erosion, induced siltation, and sedimentation. Upon completion of slope, place seeding in combination with mulch/mulch tackifier or erosion control blankets within the limits set in Section 208 of CDOT specifications.</li> <li>• Only use erosion control blankets that will be "wildlife friendly," consisting of 100 percent biodegradable materials.</li> <li>• Limit access points to streams during construction to minimize degradation of the banks.</li> <li>• Do not create any new fish passage barriers.</li> <li>• Comply with Colorado SB 40, which requires all state agencies to obtain wildlife certification from CPW when the agency plans construction in any stream or its bank or tributaries.</li> <li>• Apply CDOT's water quality BMPs, and include the installation of mechanisms to collect, contain, and/or treat road runoff. Mitigate potential impacts to fish habitat by incorporating mitigation measures, such as habitat replacement/enhancement and replacement of existing culverts with larger or more numerous culverts and/or free-spanning bridges. These measures are designed to offset impacts to wetlands, ULTO, and PMJM.</li> </ul>	Contractor	During construction	ROD4, Page 56						

# Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

**Project Information**

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147	Visual Quality	Changes in visual quality due to grade changes and new structures, noise walls, park-n-ride facilities, and retaining walls	Follow the guidelines as provided in "I-25 Corridor Common Structural Elements and Design Criteria for the Preparation of Site-Specific Structure Selection Reports."	CDOT Engineering/ Contractor	During construction	ROD4, Page 58						
148	Visual Quality	Changes in visual quality due to grade changes and new structures, noise walls, park-n-ride facilities, and retaining walls	Provide architectural interest or color into retaining wall and sound walls, and reducing the effect of overpasses by providing architectural detailing of the railings and other features to address visual effects of structural elements.	CDOT Engineering/ Contractor	During construction	ROD4, Page 58						
149	Visual Quality	Changes in visual quality due to grade changes and new structures, noise walls, park-n-ride facilities, and retaining walls	Include the use of trees in combination with shrubs to filter views to the carpool lots, provide human scale, and present a positive image to address the visual effects of carpool lots. Landscape islands with shade trees would be placed in parking lots to break up the expanse of placement and parked vehicles.	CDOT Engineering/ Contractor	During construction	ROD4, Page 58						
150	Visual Quality	Changes in visual quality due to grade changes and new structures, noise walls, park-n-ride facilities, and retaining walls	Incorporate landscaping to soften and enhance the visual effects of slip ramps. Provide architectural interest or color in retaining wall and limiting lighting to only what is required for safety and security.	CDOT Engineering/ Contractor	During construction	ROD4, Page 58						
151	Visual Quality	Changes in visual quality due to highway widening	Plant landscaping along the corridor and at interchanges.	CDOT Environmental/ Contractor	During construction	ROD4, Page 58						
152	Historic	Adverse effect to historic properties	A Section 106 Programmatic Agreement, which includes stipulations for mitigating adverse effects, includes the following mitigations: <ul style="list-style-type: none"> <li>• Prepare Level II Recordation for all historic properties that have an adverse effect determination resulting from the action of this undertaking.</li> <li>• Submit Office of Archaeology and Historic Preservation (OAHP) Cultural Resource Reevaluation Forms (Form 1405) for any properties that will be changed or modified to document changes in the conditions of the properties for OAHP's site files.</li> <li>• Submit the mitigation produced for the project to SHPO and the consulting parties for review and comment.</li> <li>• Review and consider suggested mitigation measures from the consulting parties. CDOT and FHWA will leave open the period for the consulting parties to submit alternative mitigation strategies.</li> <li>• Prepare a historic context of the development and lasting significance of irrigation in Northern Colorado. The Colorado SHPO originally requested the context as a component of the Northern Colorado Historic Ditch Inventory. The historic ditch context will be accessible through the North I-25 web page. The historic ditch context will inform the public about Northern Colorado's role and importance in the development of irrigated agriculture in the western United States. This mitigation will satisfy adverse effects to all irrigation conveyance features (ditches, laterals, and related components and structures) that become eligible after the Agreement is executed.</li> </ul>	CDOT Environmental	Pre-construction	ROD4, Page 65						
153	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Control and minimize construction disturbances.	Contractor	During construction	ROD4, Page 65						
154	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Return all disturbed areas to their original configuration to the extent possible.	Contractor	During construction	ROD4, Page 65						
155	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Implement precautionary measures, such as applied palliatives to reduce impact of dust.	Contractor	During construction	ROD4, Page 65						
156	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Implement contractor training to prevent flying debris effects.	Contractor	During construction	ROD4, Page 65						
157	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Provide planned construction staging whenever possible.	Contractor	During construction	ROD4, Page 66						
158	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Provide signage and well-marked alternate routes for access.	Contractor	During construction	ROD4, Page 66						
159	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Employ landscape context sensitive design to minimize intrusive effects of transportation facilities.	Contractor	During construction	ROD4, Page 66						
160	Historic	Indirect effects from construction activities, dust and debris, and/or visual, auditory, accessibility	Construct noise barriers as warranted.	Contractor	During construction	ROD4, Page 66						
161	Historic	Potential to impact archaeological resources	Survey all unsurveyed parcels upon acquisition, and consult with SHPO pursuant to 36 CFR 800 at that time, as required by the Section 106 PA. Require the contractor to comply with 36 CFR 800.13 for unanticipated discoveries during construction.	Contractor	Pre-construction	ROD4, Page 66						
162	Paleontological	Potential for paleontological resources to be uncovered during construction	Follow the latest revision of the CDOT Specification 107, Archeological/ Paleontological Discoveries.	CDOT Environmental/ Contractor	During construction	ROD4, Page 66						
163	Paleontological	Potential for paleontological resources to be uncovered during construction	Perform all paleontological monitoring work by a qualified and state of Colorado-permitted paleontologist. Include inspection of exposed rock units and microscopic examination of matrix to determine if fossils are present. This work would take place during surface-disturbing activities, such as excavations for the construction of roads, railways, bridges, underpasses, and buildings.	CDOT Environmental/ Contractor	During construction	ROD4, Page 66						
164	Paleontological	Potential for paleontological resources to be uncovered during construction	Schedule monitoring to take place continuously or to consist of spot-checks of construction excavations, for Pierre Shale, Laramie Formation, and Denver Formation. Paleontological monitors will follow earth-moving equipment and examine excavated sediments and excavation sidewalls for evidence of significant paleontological resources. At the request of the monitors, the project engineer will order temporary diversion of grading away from exposed fossils to permit the monitors to efficiently and professionally recover the fossil specimens and collect associated data. Make all efforts to avoid delays to project schedules.	CDOT Environmental/ Contractor	During construction	ROD4, Page 66						
165	Paleontological	Potential for paleontological resources to be uncovered during construction	Cease work in the immediate area and contact a paleontologist to evaluate the significance of the find if personnel find any subsurface bones or other potential fossils during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 67						
166	Hazardous Materials	Potential to encounter hazardous materials during construction	If hazardous materials are unearthed during construction, stop work and contact emergency services.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
167	Hazardous Materials	Potential to encounter hazardous materials during construction	Follow CDOT Specification 250.	CDOT Engineering/ CDOT Environmental/ Contractor	During construction	ROD4, Page 72						

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168	Hazardous Materials	Potential to encounter hazardous materials during construction	Manage groundwater brought to the surface according to Section 107.25 and Section 250 of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011) and permitted by the CDPHE Water Quality Control Division, if dewatering is necessary.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
169	Hazardous Materials	Potential to encounter hazardous materials during construction	Manage groundwater brought to the surface according to Section 107.25 and 250.03 of the CDOT Standard Specifications for Road and Bridge Construction (CDOT, 2011) and permitted by the CDPHE Water Quality Control Division.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
170	Hazardous Materials	Potential to encounter hazardous materials during construction	Conduct the relocations of overhead electrical utility lines and pole-mounted transformers in accordance with state and federal requirements, and any easement agreement between CDOT and/or private landowners.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
171	Hazardous Materials	Potential to encounter hazardous materials during construction	Abandon and plug all wells within the proposed construction area in accordance with CDOT Section 202.02 in Standard Specifications for Road and Bridge Construction (CDOT, 2011) and in conformance with the Colorado Department of Natural Resources Division of Water Resources State Engineer Water Well Construction Rules, specifically Rule 16.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
172	Hazardous Materials	Potential to encounter hazardous materials during construction	Perform cleanup if petroleum-contaminated soil is identified with a concentration of less than 1,000 parts per million (ppm) but higher than 500 ppm. Consider use of an MMP and H&S Plan, as required by Section 250.03 of the CDOT Specifications (CDOT, 2011), when oil and gas facilities are encountered.	CDOT Environmental/ Contractor	During construction	ROD4, Page 72						
173	Hazardous Materials	Potential to encounter hazardous materials during construction	Conduct an asbestos, lead-based paint, and miscellaneous hazardous materials survey at each property being acquired, where applicable. Conduct regulated materials abatement in accordance with Section 250 of the CDOT Specifications (CDOT, 2011) and relevant Occupational Health and Safety Administration (OSHA) regulatory details.	CDOT Environmental/ Contractor	During property acquisition/during construction	ROD4, Page 72						
174	Hazardous Materials	Potential to encounter hazardous materials during construction	Remove regulated materials from any structures and appropriately recycle or dispose of them prior to demolition.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 72						
175	Hazardous Materials	Potential to encounter hazardous materials during construction	Coordinate with the Colorado OPS prior to parcel acquisition of any sites that are identified as having active leaking tanks. If site characterization and/or remediation have not been completed, the OPS may require CDOT to complete these activities after acquisition. During the right-of-way acquisition process, additional properties may require other actions depending on the results of the ISAs.	CDOT Environmental	During property acquisition	ROD4, Page 72						
176	Hazardous Materials	Potential to encounter hazardous materials during construction	Remove all friable asbestos-containing materials (ACM) from structures (including bridges) prior to demolition, and from soils if encountered in excavated landfill or building debris, buried utilities, or other ACM. The contractor performing the asbestos abatement is required to be licensed to perform such work and obtain permits from the CDPHE.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 72						
177	Hazardous Materials	Potential to encounter hazardous materials during construction	Remove lead-based paint prior to demolition if the lead is leachable at concentrations greater than regulatory levels. Where lead-based painted surfaces will be removed via torching, additional health and safety monitoring requirements apply.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 72						
178	Hazardous Materials	Potential to encounter hazardous materials during construction	Prior to construction activities, develop an H&S Plan, as required by Section 250.03 of the CDOT Specifications (CDOT, 2011). Write construction specifications to include review of the H&S Plan by the CDOT Regional Environmental Manager.	CDOT Environmental/ Contractor	Pre-construction	ROD4, Page 73						
179	Hazardous Materials	Potential to encounter hazardous materials during construction	Establish monitoring requirements for hazardous materials concerns during construction activities in the MMP H&S Plan, and CDOT standard and project-specific specifications.	CDOT Environmental/ Contractor	During construction	ROD4, Page 73						
180	Farmlands	Impacts to farmlands and agricultural	Consider conversion of non-prime farmland before converting prime farmland during final design to minimize overall impacts to prime farmland	Contractor	During construction	ROD4, Page 75						
181	Farmlands	Impacts to farmlands and agricultural	Consider replacing irrigation ditches and pipes as appropriate if important agricultural features are affected.	Contractor	During construction	ROD4, Page 75						
182	Farmlands	Impacts to farmlands and agricultural	Compensate loss or damage to crops resulting from construction activities	Contractor	During construction	ROD4, Page 75						
183	Farmlands	Impacts to farmlands and agricultural	Keep construction materials, tools, and vehicles within the proposed right-of-way to reduce impacts	Contractor	During construction	ROD4, Page 75						
184	Energy	Increased VMT and Energy Consumption	Reduce overall traffic time by increasing travel efficiency.	CDOT Engineering/ Contractor	Final design/ during construction	ROD4, Page 76						
185	Public Safety and Security	Potential losses at construction sites	Provide fencing and on-site security	Contractor	During construction	ROD4, Page 77						
186	Public Safety and Security	Potential losses at construction sites	Follow all OSHA requirements applicable to construction site safety. Construction contractors will be responsible for safety at their respective sites.	Contractor	During construction	ROD4, Page 77						
187	Public Safety and Security	Potential losses at construction sites	Approval of each contractor's site safety plans will be given by the appropriate agencies or a construction management consultant, if chosen. The appropriate agencies will provide a site safety officer to monitor site safety.	Contractor	During construction	ROD4, Page 77						
188	Construction Impacts	Short-term effects to noise due to construction	<ul style="list-style-type: none"> <li>• Use enhanced signing.</li> <li>• Implement construction best management practices.</li> <li>• Use noise blankets on equipment and quiet-use generators.</li> <li>• Combine noisy operations to occur in the same time period.</li> <li>• Use alternative construction methods, such as sonic or vibratory pile-driving in sensitive areas, when possible.</li> <li>• In residential areas, minimize construction activities during the evening, nighttime, weekends, and holidays when receptors are usually in these areas.</li> <li>• Implement nighttime construction when desirable (e.g., commercial areas where businesses may be disrupted during daytime hours) or necessary to avoid major traffic disruption.</li> <li>• Use commercially available effective mufflers and enclosures on all engines, as possible.</li> <li>• Use modern equipment with improved noise muffling and evaluate all equipment items to ensure that they have the manufacturers' recommended noise abatement measure, such as mufflers, engine covers, and engine vibration isolators intact and operational. Inspect all construction equipment at periodic intervals to ensure proper maintenance and presence of noise-control devices (e.g., mufflers and shrouding).</li> <li>• Avoid the use of impact pile driving near noise sensitive areas, where possible. Use alternative foundation preparation technologies, such as vibratory pile driving or cast in drilled hole.</li> <li>• Use temporary barriers, as required, to protect sensitive receptors from excessive construction noise. Make noise barriers of heavy plywood or moveable insulated sound blankets.</li> <li>• Conduct truck loading, unloading, and hauling operations so that noise will be kept to a minimum. Carefully select routes to avoid going through residential neighborhoods to the greatest possible extent.</li> <li>• Maintain good public relations with the community to minimize objections to unavoidable construction noise. Provide frequent updates of all construction activities to the public. Keep residents informed so they may plan around periods of particularly high noise levels and provide a conduit for residents to express any concerns or complaints about noise.</li> </ul>	CDOT Engineering/ Contractor	During construction	ROD4, Page 81						

# Colorado Department of Transportation Mitigation Commitment Monitoring and Reporting

**Project Information**

<b>Project Name:</b> I-25 North CR56 to US392
<b>Environmental Project Manager:</b> Carol Parr
<b>Project Number:</b>
<b>Document Type and Date of Approval:</b> Record of Decision 4
<b>Project Phase:</b> 4th

Mitigation Commitment #	Mitigation Category	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	Mitigation Status		Agency Coordination		Comments	
								Date Mitigation Completed	Name of Person Completing Mitigation	Agency Coordination Required? Yes or No	Name of Each Agency		
189	Construction Impacts	Short-term effects to access due to construction	<ul style="list-style-type: none"> <li>Use enhanced signing.</li> <li>Use alternate access enhancements.</li> <li>Use advertising/public relations.</li> <li>Do not close multiple interchanges concurrently.</li> </ul>	CDOT Engineering/ CDOT Environmental/ Contractor	During construction	ROD4, Page 82							
190	Construction Impacts	Short-term effects to highway traffic including: • Traffic Detours • Lane closures • Congestion • Construction vehicles on local streets • Safety of lane shifts	<ul style="list-style-type: none"> <li>Limit detours.</li> <li>Place detours on major arterial streets and ensure no local street detours are implemented.</li> <li>Schedule construction during periods of least traffic.</li> <li>Use geometric enhancements including wider lanes and better visibility.</li> <li>Limit construction vehicles to major arterials.</li> <li>Enforce speed restrictions; provide adequate space for enforcement; make prime contractor accountable.</li> <li>Use courtesy patrol.</li> <li>Use enhanced signing.</li> <li>Phase construction to limit traffic in neighborhoods.</li> <li>Comply with American Association of State Highway and Transportation Officials (AASHTO) guidance and Manual on Uniform Traffic Control Devices.</li> <li>Coordinate work activities to ensure they do not coincide with sporting, school, or special events.</li> <li>Implement advanced traffic diversion.</li> <li>Use intelligent management systems and variable message signs to advise/redirect traffic.</li> <li>Work with Regional Transportation District (RTD) to offer enhanced operations during peak construction.</li> <li>Develop traffic management plans.</li> <li>Maintain access to local businesses/residents.</li> <li>Coordinate with emergency service providers to minimize delay and ensure access to properties.</li> </ul>	CDOT Engineering/ Contractor	During construction	ROD4, Page 82							
191	Construction Impacts	Short-term effects to bicycles and pedestrians mobility due to construction	<ul style="list-style-type: none"> <li>Provide well-defined detours for pedestrians/ bicyclists.</li> <li>Enhance safety through the use of adequate signing, fencing, and lighting.</li> <li>Implement a public relations program.</li> <li>Comply with American Disability Act requirements.</li> <li>Construct new bike/pedestrian overpass as a detour before old is demolished.</li> </ul>	CDOT Engineering/ Contractor	During construction	ROD4, Page 83							
192	Construction Impacts	Short-term effects to environmental resources including: • Dust/air quality • Hazardous waste • Water quality • Resource use/recycling material	<ul style="list-style-type: none"> <li>Provide early investigation of subsurface conditions.</li> <li>Prepare a well-defined materials handling plan.</li> <li>Employ educated contractor with trained personnel.</li> <li>Require prompt and safe disposal of waste products.</li> <li>Implement water quality best management practices.</li> <li>Prepare well-defined stormwater management plan.</li> <li>Conduct monitoring.</li> <li>Institute resource reuse and allocation.</li> <li>Ensure regulatory compliance.</li> <li>Cover trucks hauling soil and other materials.</li> <li>Stabilize and cover stockpile areas.</li> <li>Minimize offsite tracking of mud, debris, hazardous material, and noxious weeds by washing construction equipment in contained areas.</li> <li>Avoid impacts to wetlands or other areas of important habitat value in addition to those impacted by the project itself.</li> <li>Control and prevent concrete washout and construction wastewater. As projects are designed, ensure that proper specifications are adhered to and reviewed to ensure adequacy in the prevention of water pollution by concrete washout.</li> <li>Store equipment and materials in designated areas only.</li> <li>Promptly remove any unused detour pavement or signs.</li> <li>Follow CDOT Standard Specifications for Road and Bridge Construction (2011), including sections regarding water quality control, erosion control, and environmental health and safety.</li> <li>As soon as practicable after construction activities have been completed in a disturbed area, begin permanent stabilization to limit further erosion of soil.</li> <li>Remove soil and other materials from paved streets.</li> <li>Incorporate recommendations as appropriate from the Regional Air Quality Council (RAQC) report, Reducing Diesel Emissions in the Denver Area (RAQC, 2002).</li> <li>Operate equipment mainly during off-peak hours.</li> <li>Limit equipment idling time.</li> <li>Use recycled materials for project activities to the extent allowed by good practice and CDOT construction specifications.</li> <li>Use construction equipment that use ultra-low sulfur fuels to the extent practicable.</li> </ul>	CDOT Environmental/ Contractor	During construction	ROD4, Page 84							
193	Construction Impacts	Short-term effects to floodplains and water resources due to construction	Implement best management practices as part of the stormwater management plan to abate and control suspended soil loading from erosion. Use best management practices that are consistent with the MS4 permitting requirements, requirements of Northern Front Range flood control districts, as well as practices mentioned in CDOT's Erosion Control and Stormwater Quality Guide (CDOT, 2002b, Revised Chapter 5 EC 5&6 July 2014). Include such measures as silt fences and detention ponds. Use riprap slope protection where necessary to prevent erosion. Ensure that any impacts to surface water quality as a result of construction are temporary. (Mitigation measures for contaminated groundwater potentially encountered during construction are discussed in Section 6.7 Water Quality. Section 107.25 of CDOT's Standard Specifications for Road and Bridge Construction (2011) deals with contractor's requirements for water quality control.)	CDOT Environmental/ Contractor	During construction	ROD4, Page 85							
194	Irreversible and Irrecoverable Commitments of Resources	Potential reconstruction of parts of the project due to phasing	Minimize to the greatest extent possible the amount of the project that needs to be reconstructed as the project is constructed in phases due to funding constraints.	CDOT Engineering/ Contractor	Final design	ROD4, Page 86							
195	Cumulative Impacts	Water Quality Increased impervious surfaces and highway maintenance activities will increase run-off into streams.	Reduce impacts to water quality through implementation of maintenance programs and best management practices in both construction and design. Include several BMPs to reduce impacts to water resources and improve water quality conditions. Implement a combination of mitigation measures consisting of permanent structural, non-structural, and temporary construction in the project area. Incorporate all BMPs stated in the FEIS.	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 90							

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196	Cumulative Impacts	Wildlife Raptor nests will be directly and indirectly impacted by construction. Black-tailed prairie dogs will be impacted by the construction of ROD 4.	Follow the MBTA to mitigate for impacts to migratory birds. Provide relief from some of the highway construction and expansion impacts by following CDOT's proposed special provisions creating a new Standards and Specification Section 240—Protection of Migratory Birds to address the requirements of the MBTA.	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 91						
197	Cumulative Impacts	Wetlands The incremental impact to wetlands of the project represents a very small percentage of the total wetlands in the FEIS study area.	Follow CDOT's Impacted Black-Tailed Prairie Dog Policy (CDOT, 2009). Carry out any prairie dog relocation or removal activities in accordance with CRS 35-7-203, as well as any other applicable laws or regulations, and with close coordination with Colorado Parks and Wildlife.	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 91						
198	Cumulative Impacts	Air Quality Incremental emissions impacts to air quality will be small compared to current pollutant levels.	<ul style="list-style-type: none"> <li>• Reduce the growth of single occupancy vehicle use, lowering vehicle miles traveled and traffic emissions, by increasing transit facilities and transit service in addition to incentives for high occupant vehicles in the express lanes.</li> <li>• Utilize the existing transportation mobility network by supporting and expanding Transportation Demand Management (TDM) efforts, including the North Front Range MPO's ride-sharing program, Van Go.</li> <li>• Develop truck routes/restrictions with the goal of limiting truck traffic in proximity to facilities, including schools, with sensitive receptor populations.</li> <li>• Continue researching pavement durability opportunities with the goal of reducing the frequency of resurfacing and/or reconstruction project.</li> <li>• Develop air quality educational materials, specific to transportation issue, for citizens, elected officials, and schools.</li> <li>• Offer outreach to communities to integrate land use and transportation decisions to reduce growth in VMT, such as smart growth techniques, buffer zones, transit-oriented development, walkable communities, access management plans, etc.</li> <li>• Commit to research additional concrete additives that would reduce the demand for cement.</li> <li>• Continue to diversify the CDOT fleet by retrofitting diesel vehicles, specifying the types of vehicles and equipment contractors may use, purchasing low-emission vehicles, such as hybrids, and purchasing cleaner burning fuels through bidding incentives where feasible.</li> <li>• Explore congestion and/or right-lane-only restrictions for motor carriers.</li> <li>• Fund truck parking electrification (note: mostly via exploring external grant opportunities).</li> <li>• Research additional ways to improve freight movement and efficiency statewide.</li> <li>• Commit to incorporating ultra-low sulfur diesel for non-road equipment statewide most likely by using incentives during bidding.</li> <li>• Develop a low-Volatile Organic Compounds (VOC) emitting tree landscaping specification.</li> </ul>	CDOT Environmental/ Contractor	Pre-construction/ during construction/ post-construction	ROD4, Page 91						
199	Section 4(f)	Louden Ditch Impacts	Create detailed recording of the affected ditch in accordance with the Colorado Historical Society standards for Level II Documentation.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
200	Section 4(f)	Louden Ditch Impacts	Maintain operation of the irrigation ditch during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
201	Section 4(f)	Louden Ditch Impacts	Employ appropriate erosion and sediment control BMPs to ensure protection of resource during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
202	Section 4(f)	Louden Ditch Impacts	Reseed disturbed areas with native grasses.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
203	Section 4(f)	Schmer Farm, Johnston Mountain View Farm, and Bein Farm Impacts	Complete property acquisition under the Uniform Relocation Act.	CDOT Right of Way	During property acquisition	ROD4, Page 94						
204	Section 4(f)	Schmer Farm, Johnston Mountain View Farm, and Bein Farm Impacts	Work with SHPO during final design to formulate acceptable aesthetic treatment of highway ramps and flyways (facades, pier treatments, elevation changes, landscaping, etc.).	CDOT Engineering/ CDOT Environmental/ Contractor	Final design	ROD4, Page 94						
205	Section 4(f)	Schmer Farm, Johnston Mountain View Farm, and Bein Farm Impacts	Maintain operation of farm during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
206	Section 4(f)	Schmer Farm, Johnston Mountain View Farm, and Bein Farm Impacts	Employ appropriate erosion and sediment control BMPs to ensure protection of resource during construction.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						
207	Section 4(f)	Schmer Farm, Johnston Mountain View Farm, and Bein Farm Impacts	Reseed disturbed areas with native grasses.	CDOT Environmental/ Contractor	During construction	ROD4, Page 94						

