

**Request For Proposal - US6 Bridges Design Build Project  
BR 0061-083, Sub Account 18838 (CN)**

**Book 2 - Technical Requirements  
Section 5 - Environmental Requirements**

**Project Information**

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

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	Mitigation Status		Agency Coordination		Comments
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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								
2	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 with consideration of public health and environment.	Contractor								
3	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								
4	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, and consider using higher-grade fuel.	Minimize excessive idling of inactive equipment or vehicles.	Contractor								
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, and consider using higher-grade fuel.	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								
6	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 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			FEIS commitment					
7	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								
8	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								
9	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								
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.	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								
11	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								
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.	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								
13	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 to the CDOT Erosion Control and Stormwater Quality Guide (CDOT, 2002).	Contractor								
14	Floodplains	Encroachment into the floodplain.	South Platte River Bridge	Impacts due to the replacement of the South Platte River Bridge	Design bridges to minimize the impact on floodplains from piers, abutments, and roadways, to the extent practicable.	Contractor								
15	Floodplains	Encroachment into the floodplain.	South Platte River Bridge	Impacts due to the replacement of the South Platte River Bridge	Restore construction areas to the pre-construction conditions in accordance with Book 2 Section 5.1.6. Vegetation	Contractor								
16	Floodplains	Encroachment into the floodplain.	South Platte River Bridge	Impacts due to the replacement of the South Platte River Bridge	Provide adequate floodplain width in areas of floodplain encroachment for overall "no rise" in floodplain.	Contractor								

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17	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.	The Contractor must 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								
17	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.	The contractor must 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								
18	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.	All wetlands delineated and mapped for the project as shown in Biological Resources Report will be protected from construction activities by construction limit fencing.	Contractor								
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.	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. The Contractor will be responsible for purchasing any mitigation credits required.	Contractor/CDOT								
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.	Design and construct minimum length culverts and use construction BMPs to reduce impacts to wetlands, waters of the US and riparian areas.	Contractor								
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.	Use construction BMPs to reduce temporary impacts; and use water quality BMPs to minimize indirect impacts.	Contractor								
22	Vegetation and Wildlife	Impacts to trees/wildlife/fisheries	South Platte River	Removal of trees, potential effects to state listed species	The Contractor will 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. CPW shall complete its review of the application and issue SB-40 Certification or request additional information or mitigation commitments within 30 days of submittal. CDOT Project Special Provision 240 will be followed.	Contractor/CDOT/ CPW								
23	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								
24	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								
25	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.	The Contractor will 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								
26	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 with a goal of 1:1 replacement 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								
27	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								

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28	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								
29	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			FEIS commitment					

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30	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								
31	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								
32	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								
33	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 Memorandum of Agreement. No further coordination is required from the Contractor unless new or additional impacts are discovered.	CDOT/Contractor								
34	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								
35	Paleontology	Prior to Construction	Within US 6 Bridges Design Build Project Limits	Denver Formation fossils may be encountered during construction.	Provide the CDOT paleontologist 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								
36	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								
37	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 Impacts	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								
38	Socio-Economics and Community	General construction activities associated with the US 6 Bridges Design Build Project.	Within US 6 Bridges Design Build Project Limits	Pedestrian and bicycle improvements; Reduced cut-through traffic due to reduction in congestion.	Continue discussions with local communities during design and implementation to minimize disruptions. CDOT will require the Contractor to continue coordination with City and County of Denver	Contractor								
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	Implementation of the project in phases will introduce uncertainty with regard to timing of property acquisition for future phases.	Consideration of environmental justice through final design, and implementation.	CDOT/Contractor								
40	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								
41	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								
42	Parks/Recreation Resources	New or additional impacts to Barnum Park North	Barnum Park North	6(f) conversion of Barnum Park North (0.63 acre)	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								
43	Parks/Recreation Resources	New or additional impacts to Barnum Park North	Barnum Park North	6(f) conversion of Barnum Park North (0.63 acre)	Relocate trail north of its current location; replace fencing, turf and irrigation system; and provide all CDOT commitments included in the IGA with Denver Department of Parks and Recreation.	Contractor/CDOT/CCD								
44	Parks/Recreation Resources	New or additional impacts to Barnum Park North	Barnum Park North	6(f) conversion of Barnum Park North (0.63 acre)	Construct a bicycle/ pedestrian bridge over US 6 (west of Federal Boulevard) and trails connecting Barnum Park North and Barnum Park South.	Contractor								
45	Parks/Recreation Resources	New or additional impacts to South Platte River Floodplain	South Platte River Floodplain	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.	Contractor								

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46	Parks/Recreation Resources	New or additional impacts to Barnum Park East	Barnum Park East	Section 4(f) use of Barnum Park East (1.64 acres)	Minimize acquisition; reconstruct/ reconfigure facilities to maintain park function and provide upgraded facilities; enhance ADA access; install new playground; add 0.9 acre to east end of park.	Contractor/CDOT/CCD								
47	Parks/Recreation Resources	New or additional impacts to Barnum Park North	Barnum Park North	Section 4(f) use of Barnum Park North (0.90 acres)	For any new or additional impacts, minimize acquisition by shifting Federal Boulevard widening to the east; construct a bicycle/pedestrian bridge over US 6 (west of Federal Boulevard) to connect Barnum Park North and Barnum Park South.	Contractor/CDOT/CCD								
48	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								
49	Noise	Nighttime construction.	Adjacent to residential receptors	Nighttime construction noise at residential receptors.	Schedule construction between 7am and 9pm, or in accordance with local noise regulations.	Contractor								
50	Noise	Nighttime construction.	Adjacent to residential receptors	Nighttime construction noise at residential receptors.	When nighttime construction noise occurs near residential receptors, use noise blankets on equipment, quiet-use generators, and temporary noise walls/screens. During periods of extended or excessively loud nighttime construction noise, provide residents immediately adjacent to construction activities hotel vouchers.	Contractor								
51	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.	CDOT will require the 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								
52	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								
53	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								
54	Hazardous Waste	ROW Acquisition	Properties to be acquired	Properties identified with potential or recognized environmental conditions to be acquired for right-of-way.	CDOT is conducting Phase II Environmental Site Assessments at the 3 locations and coordinating with Colorado Department of Labor and Employment Division of Oil and Public Safety (OPS) and CDPHE, as necessary. CDOT will provide the Contractor the Phase II report recommendations which the Contractor must follow during construction.	CDOT/Contractor								
55	Hazardous Waste	Construction	Within US 6 Bridges Design Build Project Limits	Excavations may encounter contaminated groundwater, soil, and fill material, and in some locations methane.	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								
56	Hazardous Waste	Construction	Within US 6 Bridges Design Build Project Limits	Excavations may encounter contaminated groundwater, soil, and fill material, and in some locations methane.	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								
57	Hazardous Waste	Construction	Within US 6 Bridges Design Build Project Limits	Excavations may encounter contaminated groundwater, soil, and fill material, and in some locations methane.	Complete a Health and Safety Plan (HSP), to be reviewed and approved by CDOT, to address potential wastes that could be uncovered during construction.	Contractor								
58	Hazardous Waste	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.	Contractor								
59	Hazardous Waste	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								
60	Hazardous Waste	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 should be completed on these structures in accordance with CDOT Specification 250.04, as well as the MMP and HSP.	Contractor								
61	Hazardous Waste	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								