



Colorado Department of Transportation &
Contractor

BOOK 3

APPLICABLE STANDARDS, DATA, AND REPORTS

Region 2 Bridge Bundle Design Build Project

FINAL ~~ADDENDUM~~ REQUEST FOR PROPOSAL

~~June 10~~ August 26, 2021

PROJECT NO.: FBR R200-266
SUBACCOUNT NO.: 23558

Applicable Standards, Data, and Reports

The latest, current version of the specified standards, data, and reports at the time of the Final RFP Issue Date including all interim revisions and updates.

Copies of reports available at CDOT.

The Project-Specific Standards, Data, and Reports are listed by technical discipline for convenience only, and accordingly, such listing shall not be interpreted as limiting the application of such standards, data, and reports only to the specified technical disciplines if they are also applicable to other technical disciplines.

Availability Legend

IS = Industry standard, Not supplied with RFP N = Not Yet Available

S = Included in RFP, Supplied with RFP

Date Issued: Date the Document was listed or supplied with the RFP

Table 1 Project-Specific Standards, Data, and Reports

Document	Date Issued	Availability
CDOT Categorical Exclusion Determination #128	6/10/2021 8/26/2021	S
Region 2 Bridge Bundle Environmental Limits of Disturbance Drawings	8/26/2021 6/10/2021	S
Region 2 Bridge Bundle Pavement Justification Report for US 350, CO 239, US 24, and CO 9	8/26/2021 6/10/2021	S
Region 2 Bridge Bundle ROW Conditional Clearances	8/26/2021 6/10/2021	S

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
23 CFR 637 Construction Inspection and Approval	8/26/2021 6/10/2021	IS
23 CFR 645 Utilities & 23 CFR 646 Railroads	8/26/2021 6/10/2021	IS
23 CFR 650 Subpart A Location and Hydraulic Design of Encroachments on Flood Plains & Subpart B Erosion and Sediment Control on Highway Construction Projects	8/26/2021 6/10/2021	IS
23 CFR 710.313 Design-build projects	8/26/2021 6/10/2021	IS
23 CFR 771.117 – FHWA Categorical Exclusions	8/26/2021 6/10/2021	IS
23 CFR 772 – Procedures for Abatement of Highway Traffic Noise and Construction Noise	8/26/2021 6/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
23 CFR 774 Parks, Recreation Areas, Wildlife and Waterfowl Refuges, and Historic Sites	<u>8/26/2021</u> 6/10/2021	IS
29 CFR 1910, Federal Occupational Safety and Health Standards (Construction Industry)	<u>8/26/2021</u> 6/10/2021	IS
29 CFR 1910, Federal Occupational Safety and Health Standards (General Industry)	<u>8/26/2021</u> 6/10/2021	IS
29 CFR 1926.850, Federal Occupational Safety and Health Standards (Demolition)	<u>8/26/2021</u> 6/10/2021	IS
4 CCR 723-7 Rules Regulating Railroads, Rail Fixed Guideways, Transportation by Rail, and Rail Crossings	<u>8/26/2021</u> 6/10/2021	IS
49 CFR 24, Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally-Assisted Programs	<u>8/26/2021</u> 6/10/2021	IS
49 CFR Part 23.53I	<u>8/26/2021</u> 6/10/2021	IS
49 CFR Part 26 Appendix A – Guidance Concerning Good Faith Efforts	<u>8/26/2021</u> 6/10/2021	IS
AASHTO/AWS D1.5 M- D 1.5, Bridge Welding Code	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Guide Specifications for LRFD Seismic Design	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Guide Specifications for Design and Construction of Segmental Concrete Bridges	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Guide Specifications for Fracture Critical Non- Redundant Steel Bridge Members	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Guide Specifications for Horizontally Curved Steel Highway Bridges	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Guidelines for Steel Girder Bridge Analysis	<u>8/26/2021</u> 6/10/2021	IS
AASHTO LRFD Bridge Design Specifications	<u>8/26/2021</u> 6/10/2021	IS
AASHTO LRFD Bridge Construction Specifications	<u>8/26/2021</u> 6/10/2021	IS
AASHTO LRFD Guide Design Specifications for Bridge Temporary Works	<u>8/26/2021</u> 6/10/2021	IS
AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals	<u>8/26/2021</u> 6/10/2021	IS
AASHTO M-203 Standard Specification for Steel Strand, Uncoated Seven-Wire for Concrete Reinforcement	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Manual for Bridge Evaluation	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Policy on Geometric Design of Highways and Streets (2018)	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Roadside Design Guide	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Standard Specifications for Highway Bridges	<u>8/26/2021</u> 6/10/2021	IS
AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals	<u>8/26/2021</u> 6/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing	<u>8/26/2021</u> 6/10/2021	IS
AASHTO Ware Pavement Mechanistic-Empirical Design Software, Version 2.3.1	<u>8/26/2021</u> 6/10/2021	IS
AASHTO/NSBA Steel Bridge Collaboration Shop Detail Drawing Review/Approval Guidelines	<u>8/26/2021</u> 6/10/2021	IS
American Disabilities Act Accessibility Guidelines	<u>8/26/2021</u> 6/10/2021	IS
American National Standard Institute (ANSI) – A300	<u>8/26/2021</u> 6/10/2021	IS
American Society of Civil Engineers (ASCE) - C-I 38-02, Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data	<u>8/26/2021</u> 6/10/2021	IS
ASCE CI/ASCE 38 Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data	<u>8/26/2021</u> 6/10/2021	IS
ASTM D-1143 Standard Test Methods for Deep Foundations Under Static Axial Compressive Load	<u>8/26/2021</u> 6/10/2021	IS
ASTM Standard Specification Manual	<u>8/26/2021</u> 6/10/2021	IS
ATSSA Quality Guidelines for Work Zone Traffic Control Devices	<u>8/26/2021</u> 6/10/2021	IS
ATSSA Guidelines on the Use of Positive Protection in Temporary Traffic Control Zones	<u>8/26/2021</u> 6/10/2021	IS
CDHPE Colorado Air Quality Control Commission Regulation No. 1	<u>8/26/2021</u> 6/10/2021	IS
CDOT Asbestos-Contaminated Soil Management Standard Operating Procedure (SOP)	<u>8/26/2021</u> 6/10/2021	IS
CDOT Black-Tailed Prairie Dog Policy	<u>8/26/2021</u> 6/10/2021	IS
CDOT Bridge Design Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Bridge Design Technical Memorandums	<u>8/26/2021</u> 6/10/2021	IS
CDOT Bridge Detail Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Bridge Rating Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Bridge Structural Worksheets	<u>8/26/2021</u> 6/10/2021	IS
CDOT Deck Geometry Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT CADD Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Civil Rights Construction Contractor Compliance Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Construction Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Drainage Design Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Design Bulletin Pipe Material Selection Policy	<u>8/26/2021</u> 6/10/2021	IS
CDOT Erosion Control & Stormwater Quality Guide	<u>8/26/2021</u> 6/10/2021	IS
CDOT Field Materials Manual	<u>8/26/2021</u> 6/10/2021	IS
CDOT Form 205	<u>8/26/2021</u> 6/10/2021	IS
CDOT Form 250	<u>8/26/2021</u> 6/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
CDOT Form 438	8/26/20216/10/2021	IS
CDOT Form 444	8/26/20216/10/2021	IS
CDOT Form 568	8/26/20216/10/2021	IS
CDOT Form 730	8/26/20216/10/2021	IS
CDOT Form 893	8/26/20216/10/2021	IS
CDOT Form 1028	8/26/20216/10/2021	IS
CDOT Form 1415	8/26/20216/10/2021	IS
CDOT Form 1416	8/26/20216/10/2021	IS
CDOT Form 1420	8/26/20216/10/2021	IS
CDOT Functional Assessment of Colorado Wetlands (FACWet) methodology	8/26/20216/10/2021	IS
CDOT Geotechnical Design Manual	8/26/20216/10/2021	IS
CDOT Guidelines for the Use of Positive Protection in Work Zones	8/26/20216/10/2021	IS
CDOT Guidelines for Developing Traffic incident Management Plans for Work Zones	8/26/20216/10/2021	IS
CDOT Highway Maintenance Levels of Service Manual	8/26/20216/10/2021	IS
CDOT Laboratory Manual of Test Procedures	8/26/20216/10/2021	IS
CDOT Lighting Design Guide	8/26/20216/10/2021	IS
CDOT Materials Action Committee (MAC) Task Force Design Guide TF 2016-05	8/26/20216/10/2021	IS
CDOT Mechanistic-Empirical Pavement Design Manual	8/26/20216/10/2021	IS
CDOT MS4 Construction Program Manual	8/26/20216/10/2021	IS
CDOT Municipal Separate Storm Sewer (MS4) NPDES Permit	8/26/20216/10/2021	IS
CDOT New Development and Redevelopment (NDRD) Program Guidelines	8/26/20216/10/2021	IS
CDOT Noise Analysis and Abatement Guidelines	8/26/20216/10/2021	IS
CDOT Pipe Material Selection Policy	8/26/20216/10/2021	IS
CDOT Policy Directive 508.2, CDOT's Open Records Act Procedure for Engineering Contracts	8/26/20216/10/2021	IS
CDOT Project Development Manual	8/26/20216/10/2021	IS
CDOT Region 2 Lane Closure Strategy Technical Report and Lane Closure Schedules	8/26/20216/10/2021	IS
CDOT Research Reports	8/26/20216/10/2021	IS
CDOT Retaining & Noise Wall Inspection & Asset Management Manual	8/26/20216/10/2021	IS
CDOT Retro Reflective Sheeting Materials Guide	8/26/20216/10/2021	IS
CDOT Revisions to Project Development Manual	8/26/20216/10/2021	IS
CDOT Right of Way Manual	8/26/20216/10/2021	IS
CDOT Roadway Design Guide	8/26/20216/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
CDOT Sign Design Manual	8/26/20216/10/2021	IS
CDOT Standard Plans, M & S Standards	8/26/20216/10/2021	IS
CDOT Standard Specifications for Road and Bridge Construction	8/26/20216/10/2021	IS
CDOT Supplement to Standard Highway Signs	8/26/20216/10/2021	IS
CDOT Survey Manual	8/26/20216/10/2021	IS
CDOT The Colorado Supplement to the Federal Manual on Uniform Traffic Control Devices	8/26/20216/10/2021	IS
CDOT Transportation Guidelines to Determine Whether Acquisition of Property for a CDOT Highway Project will Serve the Public Interest (PD 1301.0)	8/26/20216/10/2021	IS
CDOT Utility Accommodation Code	8/26/20216/10/2021	IS
CDOT Work Zone Safety and Mobility Program	8/26/20216/10/2021	IS
Clean Water Act	8/26/20216/10/2021	IS
Colorado Office of Archaeology and Historic Preservation (OAHP) standards and 36 CFR 800.11	8/26/20216/10/2021	IS
Colorado Parks and Wildlife General Provisions	8/26/20216/10/2021	IS
Colorado Parks and Wildlife Recommended Buffer Zones and Seasonal Restrictions for Colorado Raptors	8/26/20216/10/2021	IS
Colorado Parks and Wildlife Recommended Survey Protocol and Actions to Protect Nesting Burrowing Owls When Conducting Prairie Dog Control	8/26/20216/10/2021	IS
Colorado Water Conservation Board Floodplain and Stormwater Criteria Manual	8/26/20216/10/2021	IS
Colorado Water Conservation Board Rules and Regulations for Regulatory Floodplains in Colorado	8/26/20216/10/2021	IS
CRS 9-1.5-102, Subsurface Utility	8/26/20216/10/2021	IS
Colorado Bridge Enterprise Strategies for Enhancing Bridge Service Life	8/26/20216/10/2021	IS
CRS 12-25 Professions and Occupations General – Engineers, Surveyors, and Architects	8/26/20216/10/2021	IS
CRS 24-56-101, The Colorado Relocation Assistance and Land Acquisition Policy, et seq. as amended	8/26/20216/10/2021	IS
CRS 35-7-203, Release of destructive rodent pests	8/26/20216/10/2021	IS
CRS 37-92-602 (8) (SB 212)	8/26/20216/10/2021	IS
CRS 38-1-101, Colorado Eminent Domain Act	8/26/20216/10/2021	IS
CRS 38-1-122, Property – Real & Personal Eminent Domain, Proceedings, Requirements & Limitations, Attorney Fees	8/26/20216/10/2021	IS
CRS 43-1-1411 Project Specific Utility Relocation Agreements	8/26/20216/10/2021	IS
CRS 43-1-208, 210 and 43-3-106	8/26/20216/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
El Paso County Drainage Criteria Manual of El Paso, Colorado	8/26/2021 6/10/2021	IS
Environmental Data Resources (EDR) Regulatory Report	8/26/2021 6/10/2021	IS
EPA Storm Water Management Model (SWMM)	8/26/2021 6/10/2021	IS
FEMA National Flood Insurance Program Regulations (44 Code of Federal Regulations [CFR] Parts 59-80)	8/26/2021 6/10/2021	IS
FHWA Corrosion/Degradation of Soil Reinforcements for Mechanically Stabilized Earth Walls and Reinforced Slopes	8/26/2021 6/10/2021	IS
FHWA Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes	8/26/2021 6/10/2021	IS
FHWA Design Manual for Permanent Ground Anchor Walls	8/26/2021 6/10/2021	IS
FHWA DP-90-068 , Permanent Ground Anchors, Volume 1, Final Report	8/26/2021 6/10/2021	IS
FHWA Geotechnical Engineering Circular No. 4 – Ground Anchors and Anchored Systems	8/26/2021 6/10/2021	IS
FHWA Geotechnical Engineering Circular No. 7 – Soil Nail Walls	8/26/2021 6/10/2021	IS
FHWA HEC-14, Design of Energy Dissipators for Culverts and Channels	8/26/2021 6/10/2021	IS
FHWA HEC-15, Design of Roadside Channels with Flexible Linings	8/26/2021 6/10/2021	IS
FHWA HEC-18, Evaluating Scour at Bridges	8/26/2021 6/10/2021	IS
FHWA HEC-20, Stream Stability at Highway Structures	8/26/2021 6/10/2021	IS
FHWA HEC-21, Design of Bridge Deck Drainage	8/26/2021 6/10/2021	IS
FHWA HEC-22, Urban Drainage Design Manual	8/26/2021 6/10/2021	IS
FHWA HEC-23, Bridge Scour and Stream Instability Countermeasures: Experience, Selection, and Design Guidance-Third Edition	8/26/2021 6/10/2021	IS
FHWA HI-95-038 “Geosynthetic Design and Construction Guidelines”	8/26/2021 6/10/2021	IS
FHWA Highway Traffic Noise: Analysis and Abatement Policy and Guidance	8/26/2021 6/10/2021	IS
FHWA Hydraulic Design Series No. 4, Introduction to Highway Hydraulics	8/26/2021 6/10/2021	IS
FHWA Hydraulic Design Series No. 5, Hydraulic Design of Highway Culverts	8/26/2021 6/10/2021	IS
FHWA Hydraulic Engineering Circular No. 12, Drainage of Highway Pavements	8/26/2021 6/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
FHWA Long-Term Pavement Performance Bind (LTPPBind Online)	<u>8/26/2021</u> 6/10/2021	IS
FHWA Manual for the Design & Construction Monitoring of Soil Nail Walls	<u>8/26/2021</u> 6/10/2021	IS
FHWA NH-00-043 Mechanically Stabilized Earth Walls and Reinforced Soil Slopes	<u>8/26/2021</u> 6/10/2021	IS
FHWA RD-82-046, Tiebacks, Executive Summary	<u>8/26/2021</u> 6/10/2021	IS
FHWA RD-82-047, Tiebacks	<u>8/26/2021</u> 6/10/2021	IS
FHWA RD-92-004, Drilled Shafts for Bridge Foundations	<u>8/26/2021</u> 6/10/2021	IS
FHWA SA-93-068, Soil Nailing Field Inspectors Manual-Soil Nail Walls	<u>8/26/2021</u> 6/10/2021	IS
FHWA Soil Nailing Field Inspectors Manual	<u>8/26/2021</u> 6/10/2021	IS
FHWA Standard Highway Signs (with supplements)	<u>8/26/2021</u> 6/10/2021	IS
FHWA Work Zone Operations Best Practices Guidebook	<u>8/26/2021</u> 6/10/2021	IS
FHWA, RD-75-114 Safety and Locational Criteria for Bicycle Facilities	<u>8/26/2021</u> 6/10/2021	IS
FHWA-CFL/TD-11-003, Wildlife Crossing Structure Handbook: Design and Evaluation in North America	<u>8/26/2021</u> 6/10/2021	IS
FHWA-RD-89-198, Soil Nailing for Stabilization of Highway Slopes and Excavations	<u>8/26/2021</u> 6/10/2021	IS
Fremont County Subdivision Regulations of Fremont County, Colorado	<u>8/26/2021</u> 6/10/2021	IS
International Building Code	<u>8/26/2021</u> 6/10/2021	IS
International Code Council (ICC), International Fire Code (IFC)Supp	<u>8/26/2021</u> 6/10/2021	IS
International Organization for Standardization (ISO), 9001	<u>8/26/2021</u> 6/10/2021	IS
Las Animas County Land Use Regulations	<u>8/26/2021</u> 6/10/2021	IS
Migratory Bird Treaty Act	<u>8/26/2021</u> 6/10/2021	IS
Mile High Flood District Urban Storm Drainage Criteria Manual, Volumes I, II, and III (USDCM)	<u>8/26/2021</u> 6/10/2021	IS
MUTCD, Manual of Uniform Traffic Control Devices	<u>8/26/2021</u> 6/10/2021	IS
National Historic Preservation Act (NHPA)	<u>8/26/2021</u> 6/10/2021	IS
National Electrical Manufacturing Association (NEMA) Standards and Specifications	<u>8/26/2021</u> 6/10/2021	IS
NFPA 1, Fire Code	<u>8/26/2021</u> 6/10/2021	IS
NFPA 101, Life Safety Code	<u>8/26/2021</u> 6/10/2021	IS

Request for Proposal
Region 2 Bridge Bundle
FBR R200-266 (23558) (Grant)
FBR R200-267 (23559) (Non-Grant)
Book 3 – Applicable Standards, Data, and Reports

Table 2 General Standards, Data, and Reports

Document	Date Issued	Availability
NFPA 70 National Electric Code	8/26/2021 6/10/2021	IS
NOAA Precipitation Frequency Atlas 14 of the United States, Volume 8	8/26/2021 6/10/2021	IS
National Precast Concrete Association (NPCA), Quality Control (QC) Manual	8/26/2021 6/10/2021	IS
OSHA Standard Specifications	8/26/2021 6/10/2021	IS
Otero County Resolution #2008-006 – Culverts, Road Access, Drainage, & Cattle Guards	8/26/2021 6/10/2021	IS
Resource Conservation and Recovery Act (RCRA)	8/26/2021 6/10/2021	IS
Retroreflective Sheeting Materials Guide	8/26/2021 6/10/2021	IS
Rules and Regulations of the CDOT Pertaining to Accommodating Utilities in the State Highway Rights of Way	8/26/2021 6/10/2021	IS
Rural Utilities Service (RUS), Specification for Filled Fiber Optic Cables	8/26/2021 6/10/2021	IS
State of Colorado, Amerco Supreme Court Case No.16SA75	8/26/2021 6/10/2021	IS
State of Colorado Endangered-Threatened Species Conservation Act	8/26/2021 6/10/2021	IS
State of Colorado, State Highway Access Code	8/26/2021 6/10/2021	IS
The Colorado Supplement to the Federal Manual on Uniform Traffic Control Devices	8/26/2021 6/10/2021	IS
The Endangered Species Act	8/26/2021 6/10/2021	IS
The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended	8/26/2021 6/10/2021	IS
Transportation Research Board (TRB) Highway Capacity Manual	8/26/2021 6/10/2021	IS
UDFCD Design of Low Tailwater Riprap Basins for Storm Sewer Pipe Outlets	8/26/2021 6/10/2021	IS
USACE Wetland Delineation Manual	8/26/2021 6/10/2021	IS