

**SCHEDULE 5A**

**Applicable Standards, Data and Reports**



Colorado High Performance  
Transportation Enterprise

***US 36 Managed Lanes Project – Toll  
Concession Project***

**SCHEDULE 5A**

**APPLICABLE STANDARDS, DATA, AND  
REPORTS**

June 27, 2013

PROJECT NO. NH 0361-103  
Code: 18907

## APPLICABLE STANDARDS, DATA and REPORTS

The latest, current version of the specified standards, data, and reports at the time of the Proposal Due Date including all interim revisions and updates shall be used unless specified otherwise.

### Availability Legend

NS = Standards, Policies, Manuals, Guidelines, Criteria, or other Documents; Not supplied with RFP

S = Document Supplied with RFP

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

Project-Specific Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
<b>5A.1</b>	<b>Environmental Documents</b>		
5A.1.01	US-36 Final Environmental Impact Statement		NS
5A.1.02	US 36 Corridor Phase 1 Record of Decision		NS
5A.1.03	2012 US-36 Phase 1 NEPA Reevaluation	July 9, 2012	S
5A.1.04	2013 US-36 Phase 2 NEPA Reevaluation	Jun 25, 2013	S
5A.1.05	CDOT NEPA Reevaluation Form (#1399).	July 9, 2012	S
5A.1.06	US 36 Corridor Section 106 Programmatic Agreement		NS
5A.1.07	Office of Archeology and Historic Preservation Re-evaluation Form #1405		NS
5A.1.08	Section 404 Wetland Permit No. 200380602, United States Army Corps of Engineers	July 9, 2012	S
5A.1.09	US-36 Phase 2 Site-Specific Biological Assessment	Feb 1, 2013	S
5A.1.10	US-36 Phase 2 Biological Opinion	Feb 1, 2013	S
5A.1.11	Categorical Exclusion for US 36 and I-25 Bridges Rehab	Jun 25, 2013	S
<b>5A.2</b>	<b>Geotechnical</b>		
5A.2.01	Final Geotechnical Engineering Report – US 36 Managed Lane/BRT Design Build Project Phase 2 – Foothills Parkway to McCaslin Boulevard - Yeh	Aug 24, 2012	S
5A.2.02	Final Geotechnical Engineering Report – US 36 Managed Lane/BRT Design Build Project – McCaslin Boulevard to Interlocken Loop - Yeh	July 9, 2012	S

Project-Specific Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
<b>5A.3</b>	<b>Drainage</b>		
5A.3.01	Flood Hazard Area Delineation (Urban Drainage)		NS
5A.3.02	Flood Insurance Rate Map (FEMA)		NS
5A.3.03	Outfall Systems Plan (Urban Drainage)		NS
5A.3.04	Major Drainageway Planning Studies		NS
<b>5A.4</b>	<b>Other</b>		
5A.4.01	US 36 Incident Management Plan	July 9, 2012	S
5A.4.02	CDOT Urban Design Manual	July 9, 2012	S
5A.4.03	CDPHE WATER QUALITY CONTROL DIVISION Compliance Order of Consent; SC-08I023-1, October 2008	July 9, 2012	S
5A.4.04	CDOT LOS Manual	July 9, 2012	S

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	CDOT Design Guide		NS
N/A	CDOT Project Development Manual		NS
N/A	CDOT Revisions to Project Development Manual		NS
N/A	CDOT Standard Plans, M & S Standards		NS
N/A	CDOT Standard Specifications for Road and Bridge Construction		NS
N/A	CDOT Field Materials Manual		NS
N/A	CDOT Erosion Control & Stormwater Quality Guide		NS
N/A	CDOT Construction Manual		NS
N/A	CDOT Laboratory Manual of Test Procedures		NS
N/A	CDOT Right of Way Manual		NS
N/A	CDOT Workplace Safety Manual		NS
N/A	CDOT Survey Manual		NS
N/A	CDOT Drainage Design Manual (2004)		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	CDOT CADD Manual		NS
N/A	CDOT Bridge Rating Manual		NS
N/A	CDOT Bridge Design Manual		NS
N/A	CDOT Bridge Technical Memorandums		NS
N/A	CDOT Utility Accommodation Code		NS
N/A	CDOT Bridge Structural Worksheets ( <a href="http://www.dot.state.co.us/Bridge/Worksheets/Worksheets.htm">www.dot.state.co.us/Bridge/Worksheets/Worksheets.htm</a> )		NS
N/A	State of Colorado, State Highway Access Code		NS
N/A	CDOT Supplement to Standard Highway Signs		NS
N/A	CDOT Work Zone Safety Booklet		NS
N/A	CDOT Retro Reflective Sheeting Materials Guide		NS
N/A	CDOT Guide Sign Policy Manual		NS
N/A	CDOT Field Studies Guidelines		NS
N/A	CDOT Traffic Chapter of the Design Guide		NS
N/A	CDOT Research Report 2003-6		NS
N/A	CDOT Pavement Design Manual		NS
N/A	CDOT's 2002 Noise Analysis and Abatement Guidelines		NS
N/A	RTD Bus Transit Facilities Design Criteria		NS
N/A	RTD Light Rail Design Criteria		NS
N/A	RTD Commuter Rail Design Criteria		NS
N/A	RTD Facilities Maintenance Design Manual		NS
N/A	MUTCD, Manual of Uniform Traffic Control Devices		NS
N/A	HDS No. 5, Hydraulic Design of Highway Culverts		NS
N/A	HEC-11, Design of Riprap Revetment		NS
N/A	HEC-12-Drainage of Highway Pavements		NS
N/A	HEC-13, Hydraulic Design of Improved Inlets for Culverts		NS
N/A	HEC-14, Hydraulic Design of Energy Dissipaters for Culverts		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
	and Channels		
N/A	HEC-15, Design of Roadside Channels with Flexible Linings		NS
N/A	HEC-18, Evaluating Scour at Bridges		NS
N/A	HEC-20, Stream Stability at Highways		NS
N/A	HEC-21, Design of Bridge Deck Drainage		NS
N/A	HEC-22, Urban Drainage Design Manual Third Edition		NS
N/A	HEC-23, Bridge Scour and Stream Instability Countermeasures Experience, Selection, and Design Guidance Third Edition, Volume 2		NS
N/A	CDOT Pipe Material Selection Policy		NS
N/A	Applicable FEMA guidelines for LOMR/CLOMR		NS
*N/A	FHWA Standard Sign 2002		NS
N/A	FHWA, RD-75-114 Safety and Location of Bicycle Facilities		NS
N/A	Federal Register, Proposed Rules, December 21, 1992		NS
N/A	FHWA Manual for Highway Storm Water Pumping Stations, Volumes 1 and 2		NS
N/A	FHWA RD-73-93, Analysis and Design Problems in Modeling Slurry Wall Construction		NS
N/A	FHWA RD-80-047, Slurry Walls as an Integral Part of Underground Transportation Structures, 1981		NS
N/A	FHWA RD-89-93, Soil Nailing for Stabilization of Highway Slopes and Excavations, 1991		NS
N/A	FHWA RD-92-004, Drilled Shafts for Bridge Foundations, August 1993		NS
N/A	FHWA SA-93-086, Soil Nail Field Inspectors Manual, 1994		NS
N/A	FHWA HI-95-038 "Geosynthetic Design and Construction Guidelines"		NS
N/A	FHWA IF-99-015 "Geotechnical Engineering Circular No. 4 – Ground Anchors and Anchored Systems"		NS
N/A	FHWA IF-03-017 "Geotechnical Engineering Circular No. 7 – "Soil Nail Walls"		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	FHWA NHI 00-043 "Mechanically Stabilized Earth Walls and Reinforced Soil Slopes"		NS
N/A	FHWA NHI 00-044 "Corrosion/Degradation of Soil Reinforcements for Mechanically Stabilized Earth Walls and Reinforced Soil Slopes"		NS
N/A	FHWA RD-97-130 "Design Manual for Permanent Ground Anchor Walls"		NS
N/A	FHWA SA-93-068 "Soil Nailing Field Inspectors Manual"		NS
N/A	FHWA SA-96-069R "Manual for the Design & Construction Monitoring of Soil Nail Walls"		NS
N/A	FHWA DP-90-068 , Permanent Ground Anchors, Volume 1, Final Report		NS
N/A	FHWA RD-82-046, Tiebacks, Executive Summary		NS
N/A	FHWA RD-82-047, Tiebacks		NS
N/A	FHWA-SA-96-071, Mechanically Stabilized Earth Walls and Reinforced Soil Slopes Design and Construction Guidelines		NS
N/A	FHWA-SA-96-072, Corrosion/Degradation of Soil Reinforcement for Mechanically Stabilized Earth Walls and Reinforced Soil Slopes		NS
N/A	FHWA-CFL/TD-11-003, Wildlife Crossing Structure Handbook: Design and Evaluation in North America (2011)		NS
N/A	ASTM Standard Specification Manual		NS
N/A	ASTM D-1143		NS
N/A	ASTM D-3996		NS
N/A	AASHTO LRFD Bridge Design Specifications		NS
N/A	AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges		NS
N/A	AASHTO LRFD Guide Design Specifications for Bridge Temporary Works		NS
N/A	AASHTO Roadside Design Guide		NS
N/A	AASHTO Standard Specifications		NS
N/A	AASHTO Standard Specifications for Highway Bridges		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	AASHTO Guide Specifications for Horizontally Curved Steel Highway Bridges		NS
N/A	AASHTO Manual for Condition Evaluation of Bridges		NS
N/A	AASHTO Guide Specifications for Design and Construction of Segmental Concrete Bridges		NS
N/A	AASHTO Guide Specifications for Structural Design of Sound Barriers		NS
N/A	AASHTO Guide Specifications for Fracture Critical Non-Redundant Steel Bridge Members		NS
N/A	AASHTO Policy on Geometric Design of Highways and Streets		NS
N/A	AASHTO Guide for Development of New Bicycle Facilities		NS
N/A	AASHTO AWS D1.5 M- D 1.5, Bridge Welding Code		NS
N/A	AASHTO Standard specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals		NS
N/A	AASHTO Guide for High-Occupancy Vehicle Facilities		NS
N/A	City and County of Broomfield, Broomfield Standards and Specifications 2007 Edition		NS
N/A	City of Westminster Standards and Specifications for the Design and Construction of Public Improvements, 1998 Edition		NS
N/A	CFR sec. 650.101 through 650.209, Code of Federal Regulations		NS
N/A	23 CFR 710.313		NS
N/A	23 CFR 711 & 23 CFR 774		NS
N/A	29 CFR 1910, Federal Occupational Safety and Health Standards (General Industry)		NS
N/A	29 CFR 1910, Federal Occupational Safety and Health Standards (Construction Industry)		NS
N/A	ANSI RP-8-00 Illumination Engineering Society of North America		NS
N/A	ANSI / EIA / TA 568 A		NS
N/A	ANSI Z60.1, American Standards for Nursery Stock		NS
N/A	OSHA Standard Specifications		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	FPA 101, Line Safety Code		NS
N/A	Uniform Fire Code		NS
N/A	Highway Traffic Noise Analysis and Abatement Policy and Guidance, June 1995		NS
N/A	National Arbor Association Ref. 1. Pruning Standards for Shade Trees		NS
N/A	Precipitation Frequency Atlas of the Western United States, Volume III –Colorado, 1973		NS
N/A	National Electric Safety Code, NFPA 70		NS
N/A	National Electrical Manufacturing Association Standards and Specifications		NS
N/A	Transportation Research Board Highway Capacity Manual		NS
N/A	National Institute of Standards and Specifications		NS
N/A	International Building Code, Edition 2003		NS
N/A	Bridge LLC or the National Cooperative Highway Research Project, 12-43 Life Cost Analysis for Bridges		NS
N/A	National Cooperative Highway Research Program Report 402, Fatigue Design of Modular Bridge Expansion Joints (1997) Appendix A & Appendix B		NS
N/A	The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended		NS
N/A	American Disabilities Act Accessibility Guidelines		NS
N/A	ADA Accessibility Guidelines, Architectural and Transportation Barriers Board, August 1991		NS
N/A	USACE Wetland Delineation Manual, 1987		NS
N/A	CDOT Municipal Separate Storm Sewer (MS4) NPDES Permit <a href="http://www.dot.state.co.us/environmental/envWaterQual/wqms4.asp">www.dot.state.co.us/environmental/envWaterQual/wqms4.asp</a>		NS
N/A	Colorado Air Quality Control Commission Regulation No. 1 <a href="http://www.cdphe.state.co.us/op/regs/airregs/100103aqccpartmattersmokecarbonmonoxide.pdf">www.cdphe.state.co.us/op/regs/airregs/100103aqccpartmattersmokecarbonmonoxide.pdf</a>		NS
N/A	CRS 24-56-101, The Colorado Relocation Assistance and Land Acquisition Policy, et seq. as supplemented		NS

General Standards, Data, and Reports			
Doc #	Document	Date Issued	Availability
N/A	Urban Storm Drainage Criteria Manual (Volumes 1 and 2 2001 Edition with later revisions and Volume 3 1999 Edition with later revisions), Urban Drainage and Flood Control District		NS
N/A	Colorado Department of Transportation Region 6 Lane Closure Strategy (Third Edition 2010)		NS
	Colorado Department of Transportation Region 4 Lane Closure Strategy (Year 2008)		NS
N/A	CDOT Guidelines for Developing Traffic Incident Management		NS
N/A	Memorandum of Agreement with Colorado Department of Natural Resources and CDOT regarding Senate Bill 40 Certification		NS
N/A	CDOT New Media Relation Guidelines		NS
N/A	CDOT Prairie Dog Policy		NS
N/A	23 CFR 645 Utilities & 23 CFR 646 Railroads		NS
N/A	CDOT ITS Standard Details		NS
N/A	CDOT's Functional Assessment of Colorado Wetlands (FACWet) methodology		NS
N/A	Xcel Energy 2010 Outdoor Lighting Manual (latest edition)		NS
N/A	CDOT Lighting Design Guide - (latest edition)		NS
N/A	City of Boulder <i>Standards and Specifications</i>		NS
N/A	City of Louisville <i>Standards and Specifications</i>		NS
N/A	Town of Superior <i>Standards and Specifications</i>		NS
N/A	City of Lafayette <i>Standards and Specifications</i>		NS

**SCHEDULE 5A**

**APPLICABLE STANDARDS, DATA AND REPORTS  
INFORMATION CONTAINED ON CD-ROM IS ON FILE  
WITH HPTE**