

## 13.0 Roadways

The design and construction of roadways for the Project shall be in accordance with the Contract Documents.

### 13.1 Administrative Requirements

No roadway improvements are anticipated as part of this project. The horizontal and vertical alignment of I-70 within the Project limits shall not be modified by the Contractor. If roadway other new roadway work is proposed by the contractor, it shall comply with the following requirements.

#### 13.1.1 I-70 through the Eisenhower/Johnson Memorial Tunnels

The requirements for the design and construction of any roadways shall include, but are not limited to, the following documents (latest versions at Proposal Due Date):

**Table 13-1 Standards for Roadway**

Author or Agency	Title
Colorado Department of Transportation (CDOT)	<i>Roadway Design Guide</i>
American Association of State Highway and Transportation Officials (AASHTO)	<i>A Policy on Geometric Design of Highways and Streets</i>
AASHTO	<i>Roadside Design Guide</i>
CDOT	<i>Standard Plans, M&amp;S Standards</i>
CDOT	<i>Standard Specifications for Road and Bridge Construction</i>
State of Colorado	<i>State Highway Access Code</i>
International Code Council (ICC)	<i>International Fire Code (IFC)</i>

### 13.2 Design Requirements

Design of the Project shall be in accordance with Book 2, Section 1.

#### 13.2.1 Submittals

All submittals shall be prepared, reviewed and submitted in accordance with the requirements set forth in Book 2, Section 3.

#### 13.2.2 Design and Plan Submittals

In addition to the submittal requirements specified in this Section, the Contractor shall submit design and plan documents for CDOT Acceptance, as required in Book 2, Section 3.

### **13.2.3 General Roadway Requirements**

#### **13.2.3.1 Basic Configuration Accommodation**

The infrastructure constructed with the Project shall consider and accommodate the Basic Configuration, including but not limited to horizontal/vertical geometry and clearances to Structures.

The Contractor shall prepare and submit the preliminary roadway design elements in consideration of the Basic Configuration for the Project and prior to issuance of Released for Construction plans, according to procedures of its Approved Quality Management Plan.

### **13.2.4 Design Exceptions**

#### **13.2.4.1 Identified Design Exceptions**

No Design Exceptions (DEs) and Design Decisions (DDs) have been identified by CDOT for this Project. Design Exceptions required for the Contractor's design shall be obtained by the Contractor in accordance with the following requirements:

#### **13.2.4.2 Design Exception Process**

The Contractor shall comply with the following requirements when requesting a Design Exception to the requirements herein:

1. The Contractor shall submit Design Exception requests in the form of a letter addressed to the CDOT Project Manager for Approval prior to issuance of applicable Released for Construction Documents.
2. The Design Exception request shall consist of the following items:
  - A. A letter identifying the exception(s) by number, Project number, location, and status (new submittal, resubmittal, etc.)
  - B. A completed CDOT Form 464a
  - C. Supporting documentation indicating the justification for the Design Exception. Justification shall address the following items:
    - 1) Site conditions of the exception.
    - 2) Compelling reason for the exception, including which standard is not being met. If the exception affects any other standards, state what will be done to mitigate the effects of the exception.
    - 3) Effects of the exception on safety and operation of the facility.
    - 4) Previous crash history near the location of the exception.
    - 5) Calculations estimating the cost of attaining the design standard and costs of exception as proposed.
    - 6) Effect on scenic, historical, or other environmental features.
  - D. Plan and profile drawings depicting the exception.

## 13.3 Construction Requirements

### 13.3.1 Removals

The Contractor shall be responsible for the removal of all items on the Project designated for removal or found to be in conflict with the Project design elements. Removal items shall become the property of the Contractor unless designated to remain property of CDOT. Removal items shall include, but not be limited to: Structures/portions of Structures and obstructions, signs designated for removal, asphalt mat, curbs, guardrail, fencing, and pavement markings. All removals shall be performed in accordance with Standard Specifications, Section 202.

### 13.3.2 Fencing

#### 13.3.2.1 Temporary Fencing

Installation of temporary fencing is required to protect adjacent private property. In remaining areas, temporary fencing should be considered to control construction operations and to avoid impacts beyond ROW limits. Temporary fence shall be placed as may be required in any other section of the Contract.

## 13.4 Deliverables

At a minimum, the Contractor shall submit the following to CDOT for Review, Approval, and/or Acceptance:

**Table 13-13-2: Deliverables by the Contractor**

Deliverable	Review, Acceptance, or Approval	Schedule
Design Exceptions	Approval	Prior to issuance of applicable Released for Construction Documents

All deliverables shall also conform to the requirements of Book 2, Section 3.