

DB Section 141.25 - Permanent Traffic Control

(a) Scope - This Section covers the design and installation of permanent traffic-control devices, including signs, Pavement markings and signals along the Project corridor.

(b) Standards - Design-Builder shall design and install all signing, traffic signals, Pavement markings, and related Equipment in accordance with the requirements of this Section 141.25.

- Oregon Supplements to the *Manual on Uniform Traffic Control Devices*
- ODOT *Sign Policy and Guidelines for the State Highway System*
- *Manual of Uniform Traffic Control Devices*
- ODOT *Highway Design Manual*
- AASHTO, "A Policy on Geometric Design of Highways and Streets" (Green Book), 5th Edition, 2004
- AASHTO *Roadside Design Guide*
- National Electric Code (NEC) and National Electric Safety Code (NESC)
- ODOT *Traffic Manual*
- ODOT *Traffic Sign Design Manual*
- ODOT *Traffic Signal Design Manual*
- ODOT *Striping Design Guidelines Manual*
- **DB Standard Special Provisions**
- **DB Standard Specifications** (Parts 00200 through 03000 of the *Oregon Standard Specifications for Construction*)
- The appropriate ODOT/APWA Standard Construction Drawings from the following site: <http://www.odot.state.or.us/tsroadway/std-dwg-02.htm>
- ODOT submittals for Field Qualification Equipment and Materials (Blue Sheets) from the following site: <http://egov.oregon.gov/ODOT/HWY/TRAFFIC/Signals.shtml>
- ODOT submittals for Conditional Qualification Controller Equipment (Green Sheets) from the following site: <http://egov.oregon.gov/ODOT/HWY/TRAFFIC/Signals.shtml>
- ODOT Qualified Products List (QPL) at the following site: <http://egov.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/Docs/QPL.pdf>
- ODOT Bicycle and Pedestrian Plan

(c) Requirements

(1) Materials

a. Signs - For new signs, Design-Builder shall use all new sign Materials at the time of installation with the exception of Adopt-A-Highway and logo (business

identification symbols) panels and frames. For signs that are removed and reset, new sign Materials are not required if the existing signs meet reflectivity requirements and good condition standards. Design-Builder shall use Materials from the Qualified Products List (QPL) that meet or exceed the requirements set in the **DB Standard Specifications**.

Design-Builder shall salvage and deliver all existing galvanized steel tube sign Structures and associated sign frames to Agency. Design-Builder shall dispose of all other removed signing materials and Structures.

b. Pavement Markings - Design-Builder shall use Materials from the ODOT Qualified Products List (QPL).

All Project-specific Materials that are required will be identified in the **DB Special Provisions**.

c. Traffic Signals - Design-Builder shall use all new Materials, as Identified on the ODOT Blue and Green Sheets.

(2) Design and Construction

a. Signs – Design-Builder shall develop a Sign Plan for each Work Location and wherever else within the Project corridor that it is necessary to correct signs that have been rendered inaccurate due to Project modifications. Signs shall be installed according to the plan and in compliance with the Standards listed in Subsection (b) above.

b. Pavement Markings – Design-Builder shall develop a Pavement Marking Plan for each Work Location, and shall apply Pavement markings according to the plan and in compliance with the Standards listed in Subsection (b) above.

c. Traffic Signals – Design-Builder shall develop a Traffic Signal Plan for each Work Location requiring signals, and shall design and install traffic signals in accordance with the plan and in compliance with the Standards listed in Subsection (b) above.

(3) Submittals – Design-Builder shall submit the following to Agency PM for Review and Comment:

- **Sign Plans** – at Readiness-for-Construction
- **Pavement Marking Plans** – at Readiness-for-Construction
- **Traffic Signal Plans** – at Readiness-for-Construction