

Wadsworth Bridge

STRUCTURE

- The Wadsworth Bridge is 63 feet wide and 400 feet long. It will carry double track light rail access and a bike/pedestrian path over Wadsworth.
- The girders for the bridge are pre-stressed to incur nearly 50 million pounds of force.
- The bridge has more than one million pounds of reinforcing steel, and 10 million pounds of concrete.
- To make the bridge lighter, the rails are attached to the bridge deck and the ballast and ties are eliminated.
- The City of Lakewood has provided funding for betterments to the station located on top of the bridge.
- There will be an elevator and staircase on each side of Wadsworth for access to the station above.
- A 1,000 space parking structure will be built on the west side of Wadsworth between 13th and 14th Avenues to service the Wadsworth Station.

CONSTRUCTION

- Several overnight closures of Wadsworth Boulevard were necessary to facilitate construction of the bridge.
- A wide offset between girders was necessary to accommodate the future staircase that will bring pedestrians up to the station.
- Unlike most bridges on the West Rail Line, the bridge over Wadsworth incorporates sound walls on top of some of the approach walls.

OVERVIEW

Total weight of bridge	11.1 million pounds
Length of bridge	400 feet
Height over Wadsworth	30 feet from finished grade to top of deck
Number of spans	3 (120'-160'-120')

The Wadsworth Bridge is part of the RTD FasTracks West Rail Line.

Designed by Kass Alkanani of Felsburg Holt and Ullevig, a sub-consultant to David Evans & Associates

Constructed by Edward Kraemer & Sons, sub-contractor to Denver Transit Construction Group



January '10



February '10



March '10



June '10