## **OVERLAND AVENUE GRADE SEPARATION**

Typical overpass structure with 3-ft-thick walls (drawn to scale)

Volume of structural concrete: 11,200 cubic yards

Cost of structural concrete: \$10.1 million @ \$900 per cubic feet

(to be designed with 10-ft-high soil embankments in the 100-ft-wide right-of-way)

"Expo Line above Overland Ave with 60-ft-wide space for the tracks and bicycle/pedestrian paths

End retaining wall/
begin 10-ft-high soil embankment

Retaining-wall section to be backfilled with soil (4% grade)
begin 10-ft-high soil embankment

425 ft

Overland Avenue below Expo Line with 100-ft-wide x 24-ft-high clearance

Retaining-wall section to be backfilled with soil (4% grade) begin 10-ft-high soil embankment

Typical underpass structure with 3-ft-thick walls (drawn to scale)

Volume of structural concrete: 8,330 cubic yards

Cost of structural concrete: \$7.5 million @ \$900 per cubic feet

(to be designed with 10-ft-deep, soil-lined open trench in the 100-ft-wide right-of-way)

Overland Avenue above Expo Line with 180-ft-wide space End retaining wall/ Fenced retaining-wall section (4% grade) Fenced retaining-wall section (4% grade) End retaining wall/ for the street and nearby facilities begin 10-ft-deep open trench 225 ft 225 ft begin 10-ft-deep open trench with soil embankment with soil embankment Expo Line below Overland Ave with 60-ft-wide x 16-ft-high clearance for the tracks and bicycle/pedestrian paths

Figure A1