

Project Boring Designation and Surveyed Location SD-100 Cone Penetration Test (CPT) Designation and Approximate Location SD-200 <u>a</u> 187-1260

LEGEND

Research Boring Designation and Approximate Location Preliminary Staff Recommended Alignment for Green Line

Topographic Contours With Elevation in Feet

NOTES

This figure is based on drawings and aerial photographs provided by Bechtel/Jacobs and the City of Seattle. The alignment and stations were compiled from the following files received 12-1-03: gl01-00-H.dwg, gl02-00-plan-H.dwg, gl03-00-H.dwg, gl04-00-H.dwg, gl05-00-plan-H.dwg, gl06-00-plan-H.dwg and the following files received 12-4-03: Station Locations_North-031202.dwg, Station Locations_South-031202.dwg.

2. Vertical datum: NAVD88.

200 100

Scale in Feet

STATIONING BETWEEN MATCHLINES

360+00 to 375+00



Seattle Monorail Project
Seattle, Washington

SITE AND EXPLORATION PLAN SODO SEGMENT

February 2004

21-1-09910-101

SHANNON & WILSON, INC. Geotechnical and Environmental Consultants

FIG. 3 Sheet 4 of 9



Project Boring Designation and Surveyed Location SD-100 Research Boring Designation and Approximate Location <mark>60</mark> 187-1260 Preliminary Staff Recommended Alignment for Green Line

Topographic Contours With Elevation in Feet

This figure is based on drawings and aerial photographs provided by Bechtel/Jacobs and the City of Seattle. The alignment and stations were compiled from the following files received 12-1-03: gl01-00-H.dwg, gl02-00-plan-H.dwg, gl03-00-H.dwg, gl04-00-H.dwg, gl05-00-plan-H.dwg, gl06-00-plan-H.dwg and the following files received 12-4-03: Station Locations_North-031202.dwg, Station Locations_South-031202.dwg.

2. Vertical datum: NAVD88.

Scale in Feet

STATIONING BETWEEN MATCHLINES

375+00 to 390+00

Seattle Monorail Project Seattle, Washington

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FIG. 3 Sheet 5 of 9

GEOLOGIC UNIT EXPLANATION

Variable mixture of Clay, Silt, Sand, and Gravel; scattered shells locally; cobbles and boulders common; very dense or hard.

PROFILE LEGEND



NON OVERRIDDEN

PREVIOUS BORING

(By Shannon & Wilson or others)



NOTES

- 1. Ground surface shown was constructed from digital elevation data provided by Bechtel/Jacobs and the City of Seattle.
- 2. Elevation Datum: North American Vertical Datum of 1988 (NAVD88).
- 3. Subsurface conditions shown are generalized from soils encountered in project borings and from logs of borings previously completed for other projects along the alignment. Variations between the profile and actual conditions may exist.
- 4. Projections are taken from the southbound track alignment in areas where two tracks are present.
- 5. Potentially liquefiable zones were identified using the following criteria:
- a. the factor-of-safety against liquefaction for the soil sample at the corresponding depth was found to be less than 1.0 (FS lig<1.0) using the procedures described by Youd et al., 2001, or
- b. the adjacent soil samples above and below a given soil sample were both found to have FS lig, 1.0 using the procedures described by Youd et at., 2001, regardless of the FS liq calculated for the given sample.
- 6. Soil in the EE(A) zone is potentially liquefiable during an earthquake of magnitude (Mw) 6.75 and having a peak ground acceleration (PGA) of 0.15g.
- 7. Soil in the EE(B) zone is potentially liquefiable during an earthquake of magnitude (Mw) 7.5 and having a peak ground acceleration (PGA) of 0.20q.
- 8. Soil in the MCE zone is potentially liquefiable during an earthquake of magnitude (Mw) 7.5 and having a peak ground acceleration (PGA) of 0.30g.
- 9. See Data Report for groundwater fluctuations.
- 10. The description of each geologic unit includes only general information regarding the environment of deposition and basic soil characteristics. See text of report for additional discussion of geologic units.





Approximate location of existing downhole and preferred Central Parking Lot array. - Soils liquefiable at relatively low ground motion levels (lots of green lines).









REV 1.5



REV 1.6



