

**Oregon Department of Transportation**

Delivery & Operations Division/

Engineering & Technical Services

7163 ­‑ Geotechnical Engineering,

Engineering Geology & Hazmat Section

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**DATE: Wednesday, November 22, 2023**

**TO:** Susan C. Ortiz, P.E., G.E.

State Geotechnical Engineer

**FROM: Curran Mohney Phone: (503) 508-3628**

**Engineering Geology Program Lead**

Oregon Department of Transportation

**SUBJECT: Proposed Revision to Geotechnical Design Manual**

**To Section Number** 20.5.4

**Problem Statement:**

The current GDM Section 20.5.4 does not give sufficiently definitive direction to include the location and layout of structures and features in the Geotechnical Datasheet plan view.

[Provide a copy of the section being revised]

20.5.4 Plan

The plan view shows existing structure(s) (if applicable) or feature(s) in addition to the proposed

structure(s) or feature(s). For bridges, existing and proposed bent and abutment locations are

located and labeled. The footprint or general layout of other structures and features are shown. These features are drawn on the Geotechnical Data Sheet at a scale suitable for easy viewing of applicable features.

Provide the alignment to be used for construction of the structure/feature. Stationing sufficient to

orient the drawing and to provide reference to the structure/feature elements being constructed.

Stationing follows the CPM requirements for stationing from left to right on the sheet. Provide

the project alignment on all sheets whether or not structure-specific alignments are used for

construction. The location of explorations such as borings, test pits, cone penetrometer tests,

seismic lines or other subsurface explorations must be shown. Each location is identified with

correct symbology assigned by the CPM. Provide the survey location directly adjacent to the

exploration number. This survey information includes the exploration number, the name of the

alignment, station, and offset with Right or Left offset indicated. For projects without alignments,

the coordinates of the exploration would be shown instead. These coordinates are the same as

the project coordinate system. If cone penetrometer, pressure meter, vane shear, packer or

other in-situ testing is performed, a note stating that the results of these tests are available in

the Geotechnical Report.

Provide water body boundaries and flow direction, if applicable, that lie within the plan view of

the structure or feature. Label the water body with the name of that body of water or use

unnamed if there is not a name. Intermittent waterways are labeled or depicted as such with the

applicable symbology.

Provide existing contour lines as gray-shaded. Contours must be displayed with numeric labels

indicating their elevation at an appropriate interval without unit labels. Provide the contour

interval on the plan sheet. Features or lines that do not serve a clear purpose with respect to

conveying information about the site conditions to be omitted.

**Proposal:**

Update the language in GDM Section 20.5.4 to direct users to include the location and layout of all existing, previous, or abandoned structures on the plan view of Geotechnical Datasheets.

[Provide a copy of the proposed revised language here]

20.5.4 Plan

The plan view shows existing structure(s) (if applicable) or feature(s) in addition to the proposed

structure(s) or feature(s). For bridges, existing and proposed bent and abutment locations are

located and labeled. The footprint or general layout of other existing, previous, or abandoned

structures and features are also shown (when identified). These features are drawn on the

Geotechnical Data Sheet at a scale suitable for easy viewing of applicable features.

Provide the alignment to be used for construction of the structure/feature. Stationing sufficient to

orient the drawing and to provide reference to the structure/feature elements being constructed.

Stationing follows the CPM requirements for stationing from left to right on the sheet. Provide

the project alignment on all sheets whether or not structure-specific alignments are used for

construction. The location of explorations such as borings, test pits, cone penetrometer tests,

seismic lines or other subsurface explorations must be shown. Each location is identified with

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indicating their elevation at an appropriate interval without unit labels. Provide the contour

interval on the plan sheet. Features or lines that do not serve a clear purpose with respect to

conveying information about the site conditions to be omitted.

**Analysis / Research / Other Supporting Data:**

None

Attached:



**Geotechnical Engineering, Engineering Geology & HazMat Section Response:**

Accepted for consideration as submitted

Accepted for consideration as noted

Proposal tabled, see Remarks

Proposal not accepted, see Remarks

**Remarks:**

[Enter Remarks here]



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