



OHIO DEPARTMENT OF TRANSPORTATION

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Geotechnical Bulletin & SGE Revisions

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Geotechnical Bulletin 1

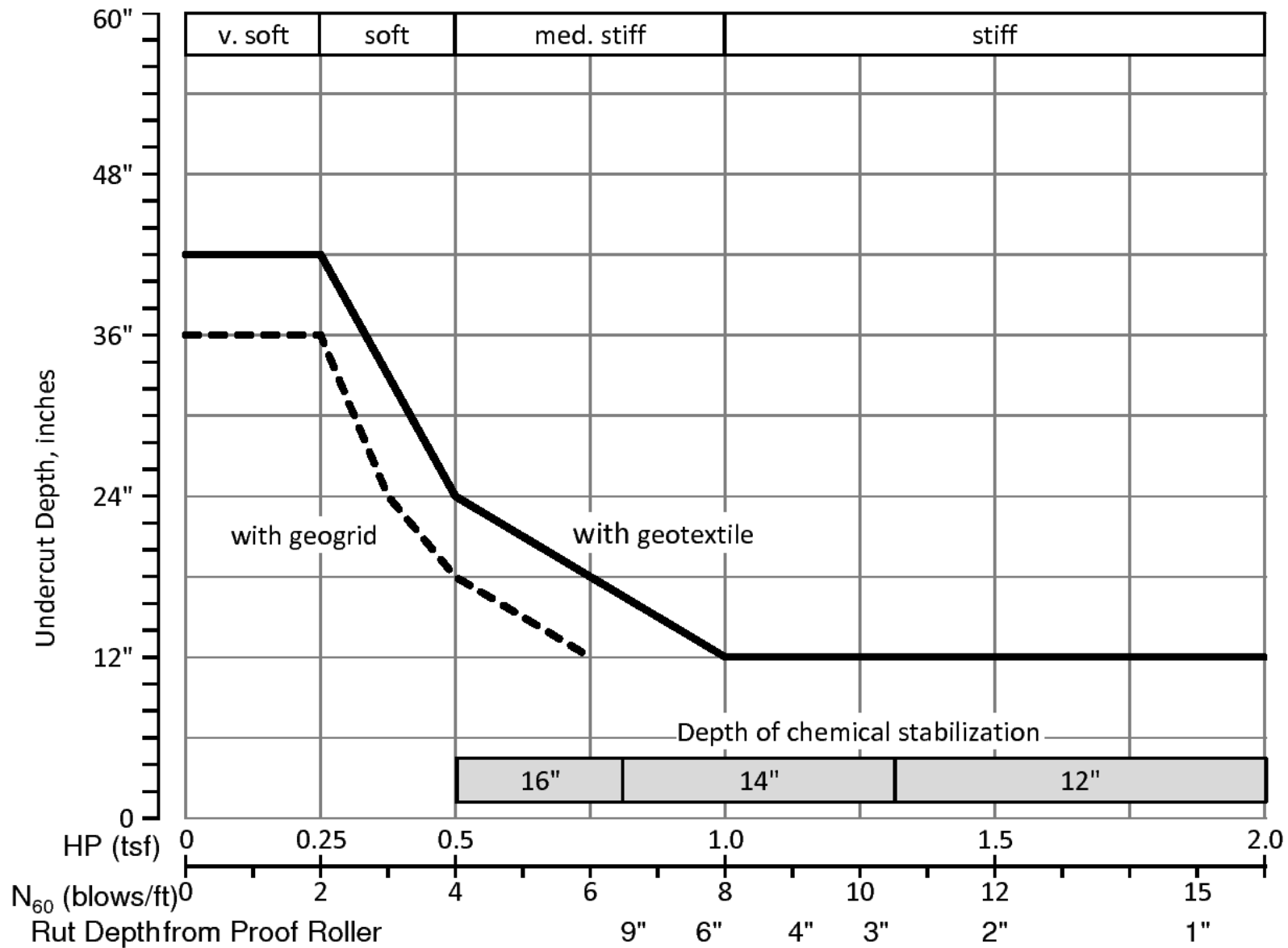
- ④ **Revisions issued January 2016**
- ④ **Added language for Supplement 1122, Determining Sulfate Content In Soils**
 - ④ Reporting requirements for samples with sulfate concentrations greater than 8,000 ppm (report as “> 8,000 ppm sulfate”)



Geotechnical Bulletin 1

☉ Revised Figure B

- ☉ Modified N_{60} vs. Undercut Depth curve for geotextiles
- ☉ Maximum undercut 48" -> 42"



Geotechnical Bulletin 1

- ④ **Removed Lime Kiln Dust (LKD) as a chemical stabilization option**
- ④ **For projects with sulfate content greater than 3,000 ppm – contact District Geotechnical Engineer to discuss options**



GB1 Spreadsheet Updates

- **Removed LKD as chemical stabilization option**
- **Added column to report sulfate test results**
- **Updated undercut depths to reflect revised GB1 Figure B**
- **Added drop-down list to select an undercut with 861 Geogrid Option – when the user selects the geogrid option, the recommended undercut depths are reduced accordingly**



Subgrade Design

- ④ **Use of historical borings, soil surveys, etc.**
- ④ **Recent urban interchange project – 30-55% of historical roadway borings encountered boulder refusal**
- ④ **Damaged contractor's reclaimer**
- ④ **For upcoming project in same county – District will be doing test pits to supplement exploration**

Geotechnical Bulletin 3 / Rock Slope Design Manual

- ⦿ **Revisions for both documents issued January 2016**
- ⦿ **Mostly editorial**
 - ⦿ Catchment Ditch – for design purposes, terminates at edge of pavement or shoulder (where shoulder exists)
 - ⦿ Rock Slope Manual updated based on ODOT research project results – Masada and Patnaik/Liang



Geotechnical Bulletin 6

- ⦿ **Reiterated that this bulletin should never be used in determining properties for in-situ soils**
- ⦿ **Only for proposed embankments (i.e. those that have not yet been constructed)**

SGE Updates – January 2016

- ④ **303.2 – updated survey requirements for explorations**
 - ④ Citations to ODOT Survey & Mapping Specifications
- ④ **Multiple revisions to text and appendices (including consultant proposal spreadsheet) due to Supplement 1122**
- ④ **Updated geotechnical sample plans (combined exploration example)**



SGE Update – June 2016

- ④ **The consultant proposal/invoice spreadsheet was updated with the following changes:**
 - ④ Discontinuation of separate average overhead rate for geotechnical services effective 6/1/16. The revised rate of 151.58% will apply to proposals for agreements and modifications received in Consultant Services on or after June 1, 2016, and similarly for task order proposals (for existing agreements) received in District or other offices.
 - ④ Minor editorial - cell reference corrections, print margins



SGE Updates – July 2016

- ④ **Section 407 – Sealing or Backfilling of Borings**
 - ④ Will be discussed this afternoon in a separate presentation
 - ④ Most of Appendix F will be eliminated

- ④ **Soil Profile Scale clarification – projects vs. individual alignments within the project**

