



Ground Improvement and Specialty Piling Contractors

# Project Summary

Project DeLorean  
Millersburg, Oregon

*The Premier Design-Build Geotechnical Contractor™*

## Trench Soil Mixing (TSM) & Deep Soil Mixing (DSM)



**Installation of TSM Rows**



**4-ft Diameter DSM**



**TSM Tooling & Installation**



**Batch plant Setup to Support TSM & DSM**

### Project Description:

AGI designed and constructed the Deep Soil Mixing ground improvement system for Project DeLorean in Millersburg, OR. Upon contract execution AGI completed design, received permit approval and deployed 2 batch plants, 2 trench mixing units, and 1 rotary drill rig in under 5 weeks. The Trench Soil Mixing (TSM) & Deep Soil Mixing (DSM) installed as closed cell grids was economized via trench mixing technology which enabled AGI to install over 92,000 cubic yards of treated soil in less than 9 weeks. Soils were treated to depth of 30-ft and 33-ft utilizing 2-ft and 3-ft trench mixing and 4-ft diameter DSM concurrently. AGI's design mitigated the effects of consolidation and liquefaction settlement to support building footings, slab-on-grade, and heavily loaded process equipment foundations.

### Application:

- ❖ Limit Static and Seismic Settlement of footings, equipment foundations, and floor slabs.
  - ❖ 1-inch Total Static / Seismic Settlement
  - ❖ 1/2-inch Total Static / Seismic Differential Settlement
- ❖ Increase bearing capacity to 4,000psf for footings and equipment foundations

### Geotechnical Conditions:

- ❖ Soft Compressible Silt / Silty Sand / Clay
- ❖ Liquefiable Soils

### Owner:

BMBCC

### General Contractor:

Layton Construction

### Geotechnical Engineer:

PBS Engineering and Environmental Inc.