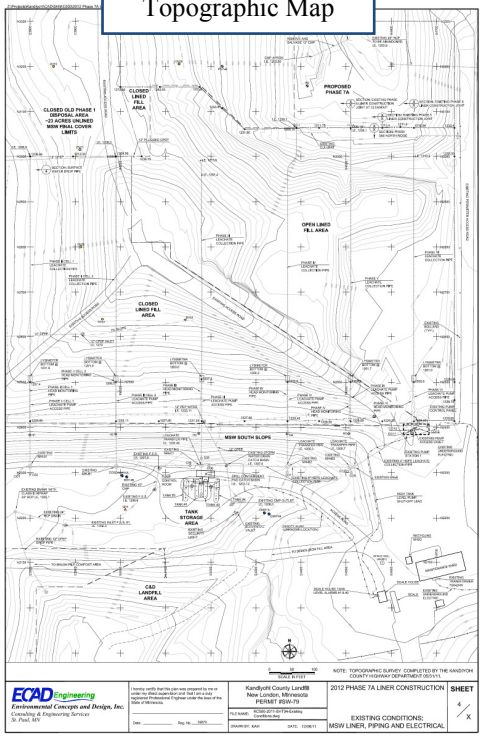
3D Surface Modeling:

Mr. Hodne has over 20 years experience working with survey information using AutoCAD Civil 3D, Autodesk Land Desktop, Microstation InRoads, and Microstation Geopak. He imports survey points provided by the project survey team and builds 3D models and topographic maps. He will analyze all points provided and any breakline features to build a highly accurate surface model. From the surface model, he can build design surfaces and calculate earthwork quantites and any quantities associated with the design.

Topographic Map



Experienced Professionals:

Terry Kaiser, PE, PG, CGWP
Principal Engineer

Gary Gilbert, PE
Senior Environmental Engineer

Nathan Arnold, PE
Civil Engineer

Eric Sanderson
GIS Specialist/Field Technician

Kris Hodne
Senior Civil/Structural Designer

Steve Reed
Senior Structural/Civil Designer

Patti McCarthy
Administrative Assistant

ECAD Engineering

Environmental Concepts & Design, Inc. • Environmental Consulting Services

905 Jefferson Ave. Suite #210 Saint Paul, Minnesota 55102

Telephone (651) 643-0645 • **Toll Free** (800) 709-5263 • **Fax** (651) 646-4431

ECADengineering.com

ECAD Engineering

Est. 1996

CADD Services

- AutoCAD 2013
- AutoCAD 2013 Civil 3D
- Autodesk Land Desktop
- MicroStation V8i
- MicroStation InRoads/Drainage
- MicroStation Geopak V8/Drainage
- WaterCAD
- ArcGIS
- 3D Rendering
- Projectwise

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Introduction to ECAD:

Environmental Concepts and Design, Inc. (ECAD) is a unique environmental consulting and engineering company incorporated in 1996.

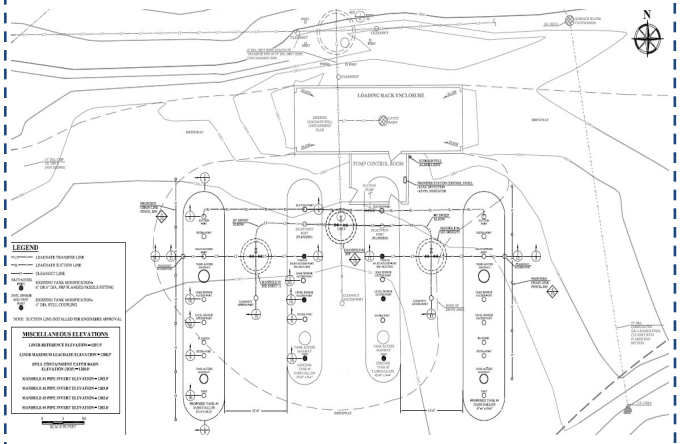
The business is owned and operated by Terry Kaiser. Mr. Kaiser is a licensed professional engineer (PE), licensed professional geologist (PG), and a certified ground water professional (CGWP).

We often team up with other professionals and firms to meet the unique needs of our clients. This has allowed us to keep our overhead costs low, with savings passed on to our clients.

Our Mission:

Provide services tailored to the specific needs of our clients, and to help complete projects in a cost-effective manner.

Site Plans



ECAD Engineering — Environmental Concepts & Design, Inc.

CADD Experience:

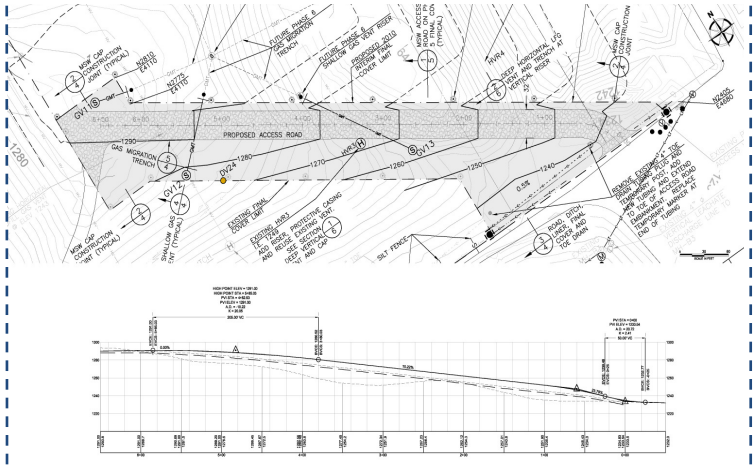
ECAD Engineering offers CADD Services in a wide range of disciplines. Senior CADD Technician, Kris Hodne, has over 20 years of experience as a Civil/Structural Designer with ECAD, AMEC, HDR, and URS. He has worked on projects for MnDOT, Illinois Tollway, Army Corp of Engineers, Cargill, City Municipalities, Metropolitan Airport Commission, and many Structural and Architectural projects.

Mr. Hodne's experience include the following:

- Landfill and Waste Transfer Stations
- Architectural and Structural Plans: Elevations, Sections, and Details
- Bridges
- Roadways
- Erosion Control Plans
- Survey
- Xcel Energy Substations
- Lock and Dams – US Army COE St. Paul District
- Sanitary Sewer and Storm Water Networks

ECAD Engineering — Environmental Concepts & Design, Inc.

Civil Plan and Proile



Flexibility:

We can work with clients from our location in St. Paul or work with the clients directly at their location. Travel expenses are not considered unless outside the metro area. All work will be completed in accordance with client specific CADD standards to ensure a consistant product.

AutoCAD Civil 3D / Autodesk Land Desktop:

ECAD staff have over 30 years of combined experience using Autodesk products for design and drafting of many types of projects. They have calculated earthwork quantities and designed roadways using Land Desktop and Civil 3D programs. They have been responsible for grading plans and site development projects for county highway departments, landfills, waste water plants, watershed districts, and others.

MicroStation / InRoads / Geopak:

Our Senior CADD Technician, Kris Hodne, has over 15 years of experience using MicroStation for plans, profiles, sections, and details. He has calculated earthwork quantites and been part of roadway project design teams. His experience includes working for organizations such as MnDOT, Illinois Tollway, and the Army Corp of Engineers.