ReCon Case Study

9’ 4” Gravity Wall Saves Money & Solves Problem for Customer!

The Challenge:

The customer had to replace a failing timber wall ranging in height from 4’ to 9’ along a busy suburban street. It was important to the City of Burnsville that (a) minimal disruption to the existing property owners take place during construction, (b) several existing power poles remain in place during construction to avoid considerable expense of moving them, (c) the wall be built without geo-grids, and (d) the wall be very durable given that it was just 3 feet from the road and in the snow / salt spray zone.

The Solution:

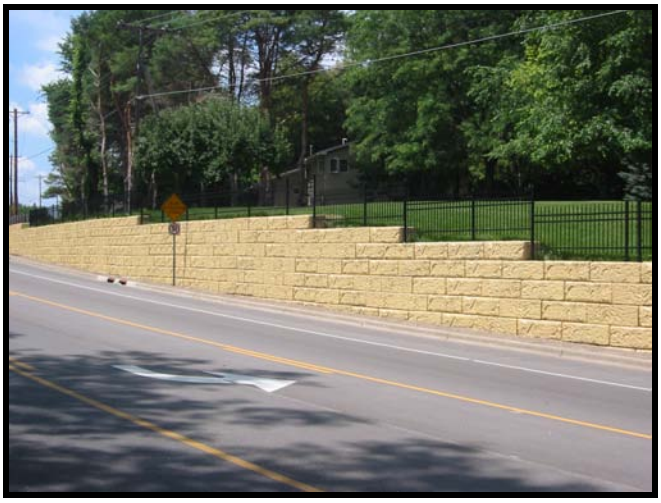
ReCon was asked to study the site and propose a solution. With the help of ReCon’s consulting engineer, a proposal to build the wall as a gravity wall was developed. Significant excavation was avoided. Time and money was saved. A great looking wall was created.

Project Details:

- Project Name: Williams Drive Improvements
- Customer: City of Burnsville
- Wall Contractor: Valley Paving, Inc.
- Engineer: MRJ Engineering, Inc.
- Wall Material: ReCon Wall System
- Total Sq. Ft. of Wall: 4140
- Length of Wall: 616 feet
- Maximum Wall Height: 9’ 4”
- Date of Wall Completion: October 2003
- SEE BACK OF PAGE FOR WALL CROSS SECTION!

Existing timber wall to be replaced.

Note the existing power lines that could not be moved.



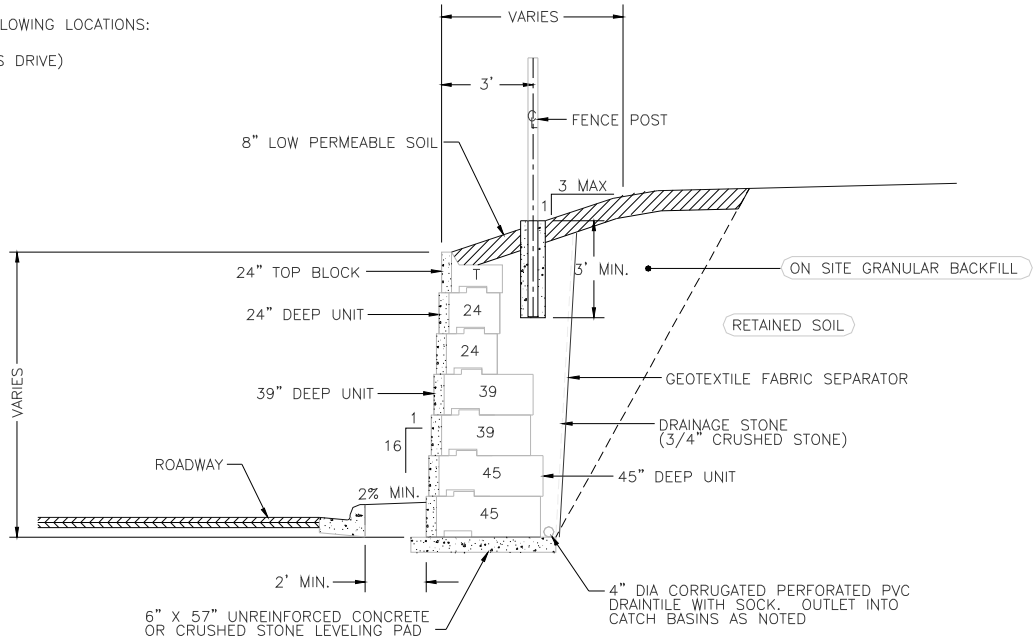
The finished product.

ReCon Wall Systems Solution

- **Property Line and Excavation Issue…9’ 4” wall required to replace failing timber wall. Could not excavate into existing property owners yards. Could not disturb existing power poles behind wall.**
- **Durability Issue…face of wall was just 2 feet from busy street curb. Lots of road salt spray. Wanted durability of wet-cast air entrained concrete.**
- **Solution…ReCon Gravity Wall.**

NOTES:

1. THE SECTION SHOWN REPRESENTS TYPICAL CONSTRUCTION FOR THE RECON RETAINING WALL SYSTEM.
2. SEE MANUFACTURER INFORMATION FOR ADDITIONAL DETAIL ON THE RECON RETAINING WALL SYSTEM.
3. PLACE SONOTUBES AT FENCE POST AND GUARD RAIL LOCATIONS DURING WALL CONSTRUCTION. DO NOT PLACE CLOSER THAN 3’ TO FACE OF WALL AS SHOWN.
4. GROUT FENCE OR GUARD RAIL POSTS INTO SONOTUBES.
5. BACKFILL THE EXCAVATION WITH ON SITE GRANULAR (SP–SM) MATERIAL ONLY.
6. OUTLET THE 4” DRAINAGE PIPE AT THE FOLLOWING LOCATIONS:
   WILLIAMS DRIVE: STATION 21+50
   HARMONY DRIVE: STATION 25+40 (WILLIAMS DRIVE)



TYPICAL WALL SECTION

recon™
Retaining Wall Systems