



**Albertson Engineering Inc.**

3202 West Main Street Suite C  
Rapid City, SD 57702  
(605) 343-9606

---

**Project Memorandum**

**Date:** July 27, 2021  
**To:** Kevin Kuchenbecker – City of Deadwood  
**From:** Jared Schippers, PE – Albertson Engineering Inc.

**Project:** 8 Jefferson St Retaining Wall Reconstruction  
**Project #:** 2021-379

**RE:** Emergency Construction Recommendation

---

As requested, Jared Schippers, PE, of Albertson Engineering Inc. met on site July 26, 2021 with you and Larry Shama, homeowner of 51 Van Buren. The retaining wall, which we understand to be near or on the property line between 51 Van Buren and 8 Jefferson St, was observed to be overturning and is now transferring lateral earth pressure onto the residence located on 51 Van Buren.

The retaining wall in question is directly outboard and adjacent the residence foundation wall near the northeast corner of 51 Van Buren. A portion of the retaining wall is now in direct contact with a wood post as well as a small deck which is also attached to the residence. Drywall cracking was observed on the interior entry way in this same vicinity.

Due to the retaining wall failure, lateral earth pressures are now being resisted by portions of the house likely not originally intended to resist lateral earth forces.

We have been directed by the City of Deadwood to develop a set of Construction Documents for a public bidding of the reconstruction work required to remediate the failure. Due the time of design, bidding, contract signing, and mobilization, we recommend emergency work be completed immediately to relieve the lateral earth forces on the retaining wall until the final reconstruction project commences.

Emergency Recommendation

A contractor shall excavate by hand or with a mini-excavator a minimum 2'-0" wide strip of soil for the full wall height in the area indicated in the photo. Access to the site shall be from Adams Street. Contractor to also provide permanent construction fencing around excavated area. Construction fencing shall become City of Deadwood property. Reconstruction of yard shall be excluded from emergency work and will be included in the publicly bid reconstruction documents. ***See attached annotated photo.***

Should you have any questions, please do not hesitate to contact our office.



8 JEFFERSON RETAINING WALL  
EMERGENCY PHASE OF WORK  
7/27/2021  
BY: ALBERTSON ENGINEERING INC.  
PROJ # 2021-379

51 VAN BUREN

APPOX 25'-0"

2'-0" WIDE x FULL WALL DEPTH  
TRENCH TO RELIEVE EARTH  
PRESSURE FROM EXISTING WALL.  
DIG WIDER TRENCH AS NEEDED IF  
MATERIAL SLOUGHS

CONSTRUCTION FENCING BY  
CONTRACTOR. FENCING SHALL  
BECOME CITY OF DEADWOOD  
PROPERTY

PLACE EXCAVATED  
MATERIAL HERE

PERFORATED DRAIN TILE AT  
BOTTOM OF TRENCH, TIE INTO  
EXISTING DRAIN TILE BEHIND  
EXISTING RETAINING WALL AT  
SOUTHWEST END OF TRENCH

