

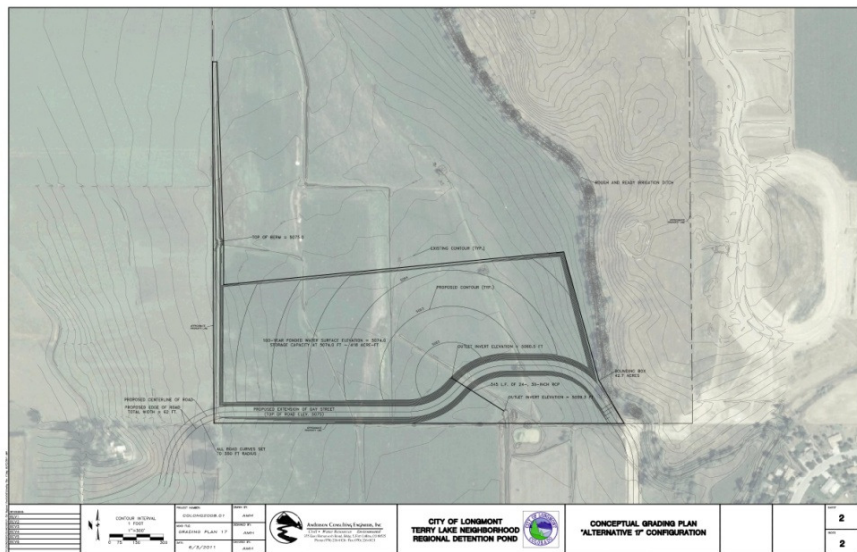
Terry Lake Neighborhood Regional Detention Pond Design Longmont, Colorado

Client: Mr. Chris Huffer
City of Longmont
1100 South Sherman Street
Longmont, CO 80501
(303) 651-8351



The Terry Lake Neighborhood (TLN) is located at the northern edge of the City of Longmont, Colorado and has a contributing drainage area of just over 10.5 square miles. This drainage basin has the potential to generate 3,900 cfs during a 100-year (1-percent annual chance of occurrence) storm event, which greatly exceeds the existing conveyance capacity of downstream drainage facilities (roughly 87 cfs). Consequently, the City of Longmont has identified the need to detain storm runoff to a level that downstream drainage facilities can accommodate. One of these detention facilities is the TLN Regional Detention Pond, which will occupy over 40 acres of land, providing over 400 acre-feet of detention storage.

The design of the TLN Regional Detention Pond is in its initial stages and is scheduled to be completed by the end of 2011. Currently the project is undergoing a feasibility study to determine dam embankment requirements. However, it is anticipated that the dam embankment will be considered an exempt structure by the State Engineers Office in accordance with Rule 17.1.1 as the embankment will be constructed as a roadway embankment.



Once completed the project will consist of the following:

- Hydrologic modeling of the tributary drainage basin using CUHP/EPA SWMM to define design discharges and to evaluate various alternatives (being conducted as part of the TLN Master Drainage Plan);
- Formulation and hydraulic design of the regional detention facility;
- Final design of the TLN Regional Detention Pond;
- Final design of an exempt jurisdictional dam embankment;
- Preparation of either a Nationwide 404 Permit;
- Preparation of final construction plans, technical specifications, and contract documents;
- Construction management services during the construction time period; and
- Preparation of as-built drawings.