

Long Lake Boat Landing Parking Lot Runoff Control

Infiltration Pit and Paved Inflow Swale

The site diagram provides location of rock pit and paved swale. A cross section for the rock infiltration pit is also included.

Site preparation prior to contractor work includes relocation of light pole and removal of maple tree. Asphalt swale to the rock pit will also be completed separately either before or after rock pit construction.

Instructions

1. Contact Diggers Hotline to have utilities marked. Notify project manager if any utility lines are within the construction area.
2. Install a silt fence around the area to be excavated and where any soil piles will be located.
3. Remove concrete slab. Excavate a pit of the specified size. The pit is 4 feet deep and 14X24 feet on the surface. (Note that additional excavation is required because there is rise in the center of this area.) End is rounded for ease of mowing. The bottom of the pit must be flat, check levels. The top will be flush with the existing surface, so the resulting pit will be deeper on the end near the bathrooms.
4. Check elevations to ensure that overflow will direct toward the trees at the edge away from the bathrooms (indicated as overflow side on the diagram). This may require constructing a slight rise at the edge where the swale meets the rock pit. (elevation was measured as .04' or 1/2" lower than along the overflow side).
5. Line the sides of the pit with filter fabric.
6. Fill the pit with clean, 3/4 to 2 inch washed rock, stopping approximately 6 inches from the top. Larger rock may be used for either the fill rock or top rock as long as it is clean rock that is uniform in size.
7. Add a horizontal layer of filter fabric on top of the rock.
8. Cover the filter fabric on pit with clean rock to the surface. The rocks on the long uphill side will slope at about 3:1 slope to meet the remaining surface of the pit about 4.5 feet in.

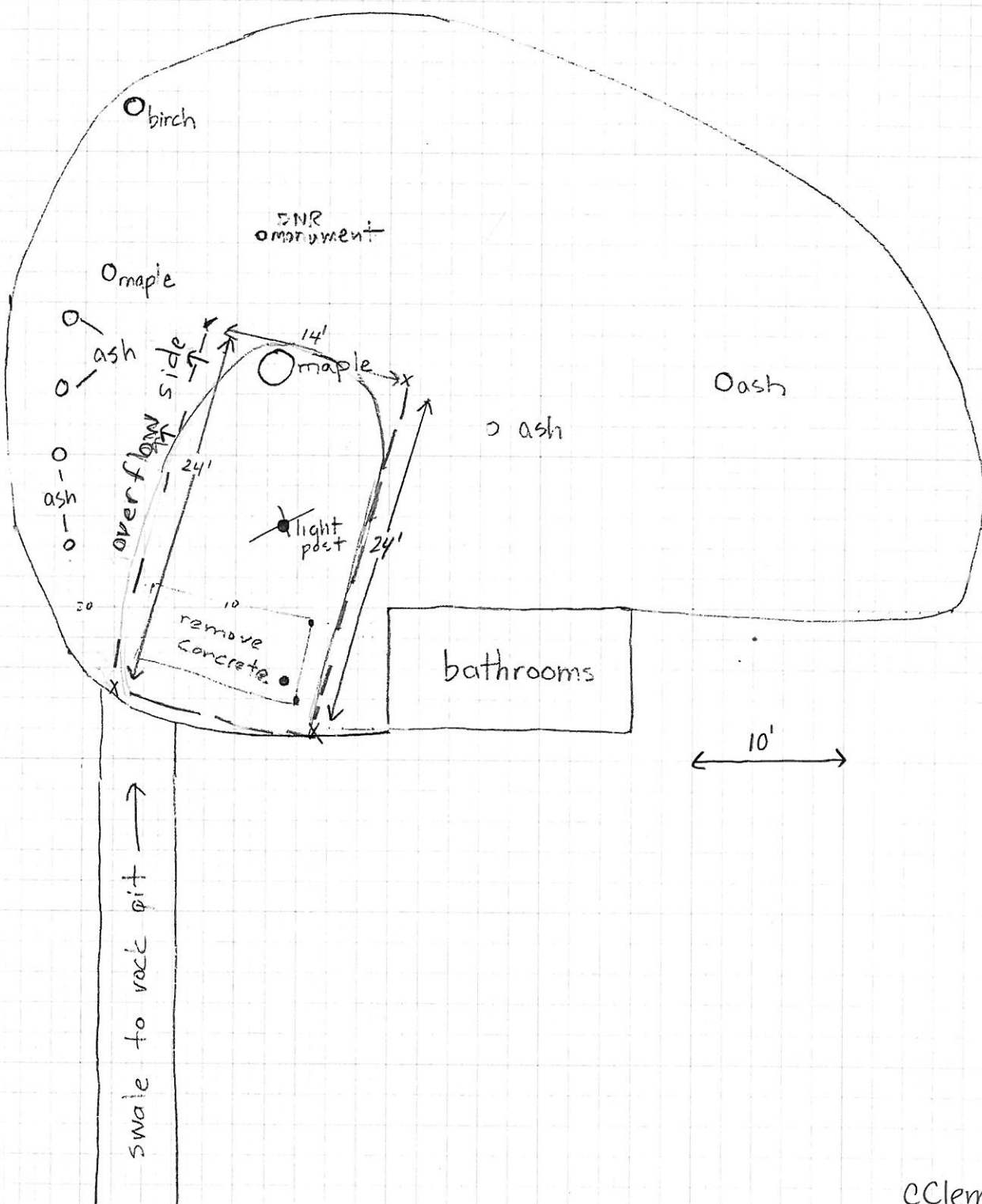
B. Maintaining a rock infiltration pit

Regularly remove pine needles, fallen leaves, and any other debris that collect on the surface of the infiltration area and rock channel. When sedimentation begins to slow infiltration, do the following:

1. Remove the top layer of rock and sift with mesh to remove sediment.*
2. Rinse rock.*
3. Remove remaining sediments from the surface of the filter fabric.*
4. Rinse and return filter fabric, or replace with new filter fabric.*
5. Refill with cleaned rock.

*Discard sediment and dirty water in a contained area on your property, such as a garden or flowerbed. This will prevent excess sediment from making its way into the lake.

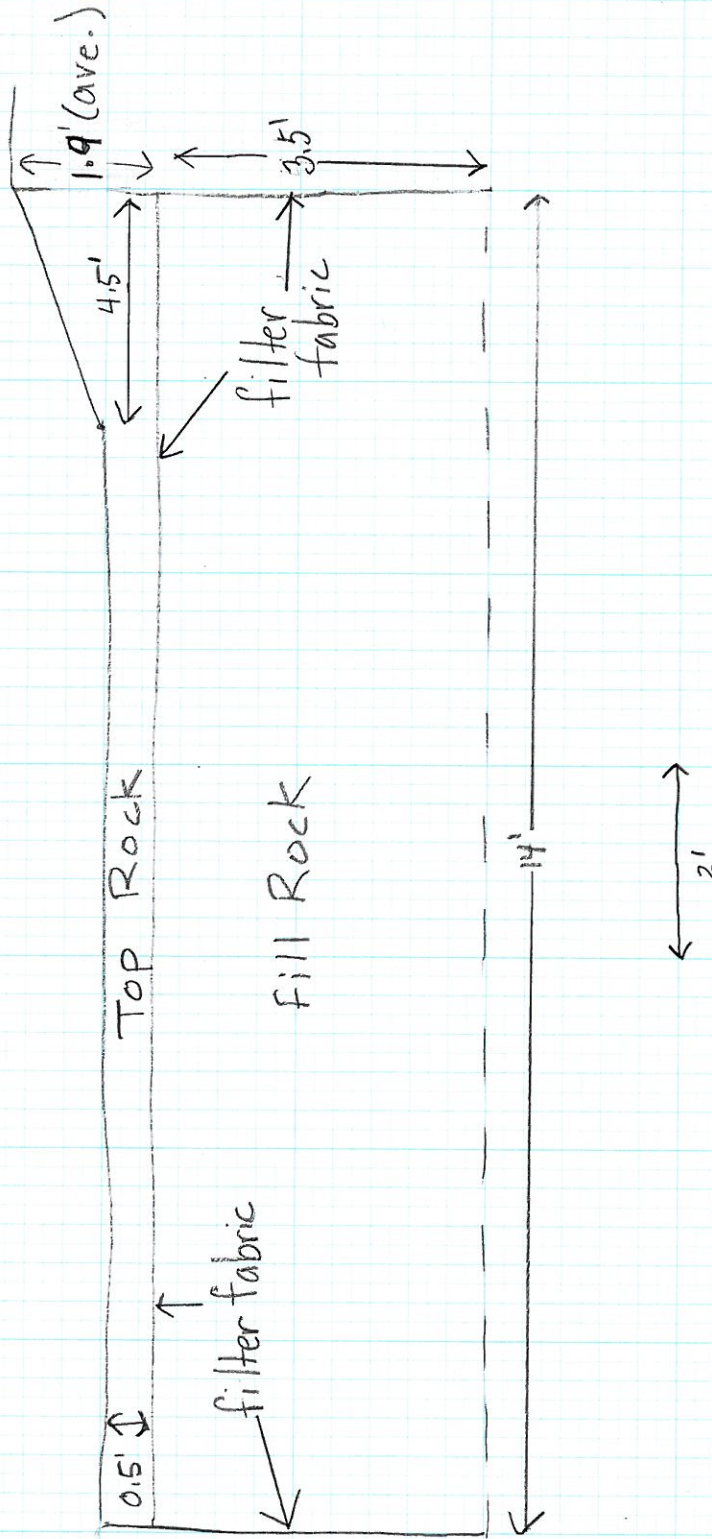
Village of Centoria
Long Lake Boat Landing
Rock Infiltration



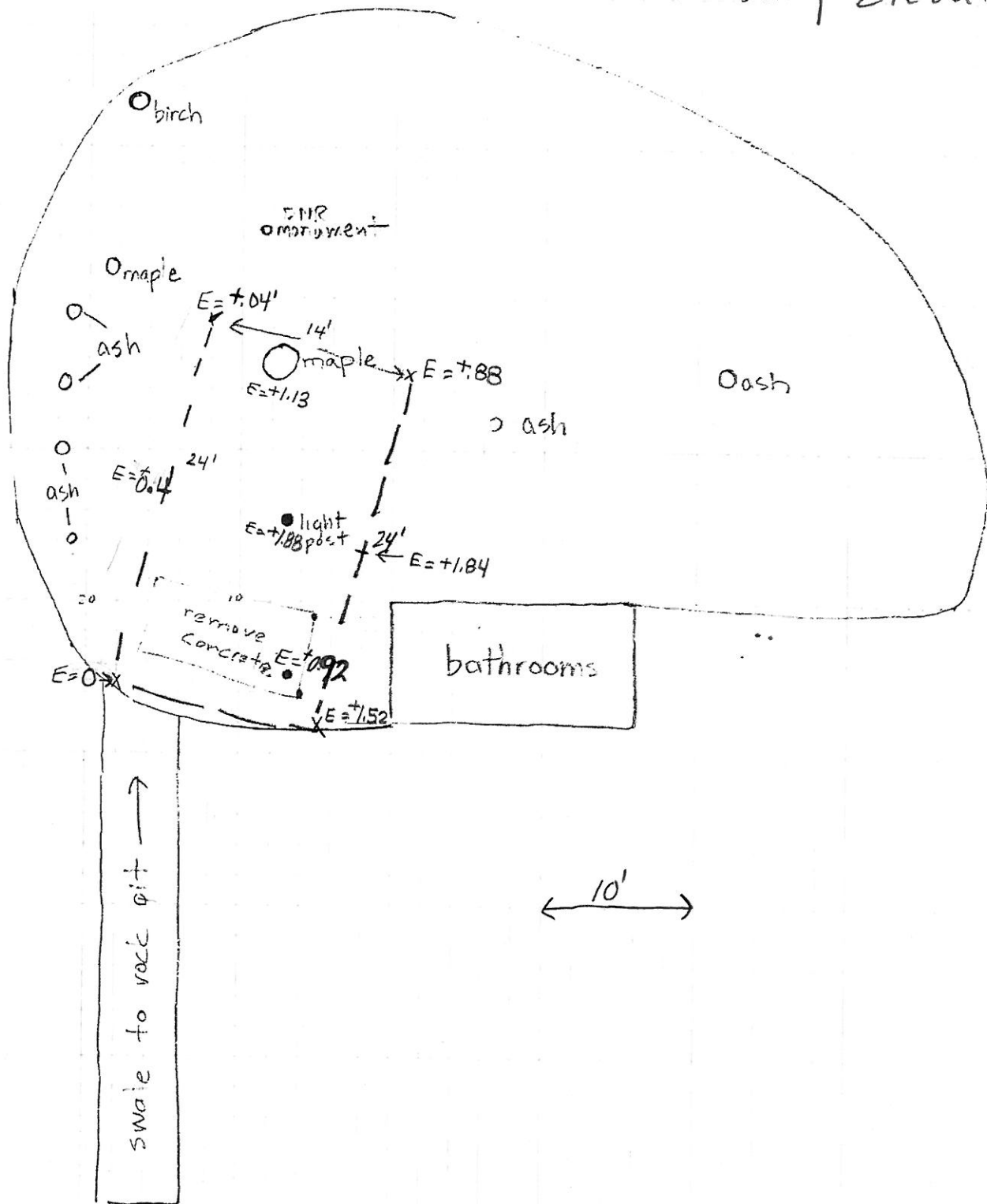
CClemens
6/20/17

Long Lake Boat Landing Rock Infiltration

Cross Section



Village of Centoria
 Long Lake Boat Landing
 Rock Infiltration
 Existing Elevations



Project Quantities

Village of Centuria Boat Landing
Long Lake

	Materials	Quantity			Bid per Project
Rock Infiltration Pit					
Filter Fabric	(8 oz.) 6 ft wide	148 linear feet			
Fill Rock	3/4" - 2" rock (yds)	40.3			
Top Rock	3/4" - 2" clean river rock	8.6			

Larger Rock is ok as long as relatively uniform in size (e.g. 4-6" clean river rock)

Silt Fence

Excavation