

EROSION CONTROL FOR INDIVIDUAL BUILDING SITES

CEDAR LAKE, INDIANA



The Town of Cedar Lake has implemented a Storm Water Management Program that entails a variety of strategies to improve water quality for our residents and natural resources. A major concern in the area is land disturbance from construction activities which temporarily leaves the soil exposed and vulnerable to erosion after a rain event. This storm water runoff carries silt, sediment and other pollutants which degrades water quality resulting in negative impacts including:

- ☞ Degrading habitat of aquatic organisms & fish
- ☞ Promotes growth of nuisance weeds and algae
- ☞ Jeopardizes public health
- ☞ Decrease recreational value of Cedar Lake
- ☞ Reduces water holding capacity leading to potential flooding
- ☞ Becomes a nuisance to adjacent property owners
- ☞ Increases costs for storm sewer system maintenance



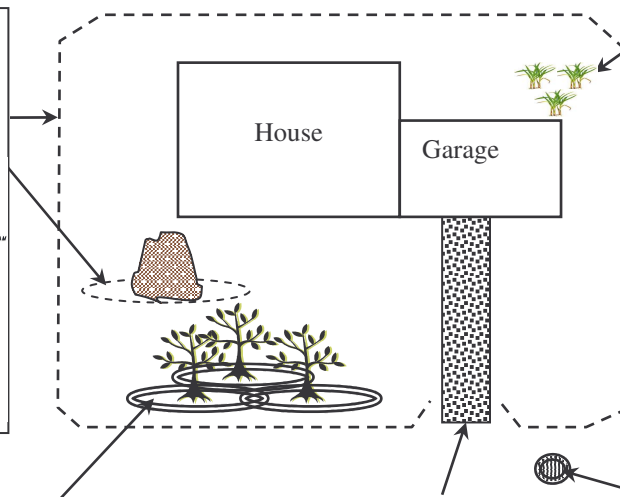
To minimize off-site sediment and other pollutants associated with construction activities, an individual building lot should have erosion control practices installed. Below is a general example of erosion control strategies for an individual building lot. Note that not all sites are similar and may require alternative strategies.

Silt Fence

-install perimeter fence prior to earth moving activities
- soil stockpiles should also be fenced and temporary seeded

SILT FENCE INSTALLATION NOTES

1. SOIL 6" DEEP TRENCH ALONG PROPOSED FENCE LINE (A TRENCHING MACHINE IS RECOMMENDED FOR LONG RUNS)
2. POUND STAKE IN TRENCH 6" IN 8" OR UNTIL SECURE. BE SURE TO STRETCH FABRIC TIGHT WHEN POUNDING STAKES. NOTE: STAKES MUST BE ON THE DOWNHILL OR DOWNSTREAM SIDE OF THE FENCE.
3. SHAPE LOOSE END OF GEOTEXTILE INTO TRENCH.
4. BACKFILL AND COMPACT SOIL ON BOTH SIDES.



Temporary Seeding

seed bare soil as soon as possible

Species	Lbs/Acre	Percent Purity
Oats	131 ¹	98
Cereal Rye	131 ²	97
Winter wheat	131 ²	95
Annual Ryegrass	80 ²	97

¹ Spring and summer seeding
² Fall seeding

Tree Preservation

fence area under dripline to isolate trees from disturbance prior to any construction activities

CRITICAL ROOT ZONE
Extends out from the trunk to the drip line, or to a distance of 12 feet from trunk.

Stable Construction

Entrance/Driveway restrict all equipment ingress/egress to this stable surface

NOTES:
MATERIAL: 2-3 IN. WASHED STONE (SLOTT OR NO. 20) OVER A STABLE FOUNDATION.
HEIGHT: 6-12 IN. MINIMUM.
WIDTH: 8-12 IN. MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT ROADWAY, WHICHEVER IS GREATER.
SLOPE: 2:1 TO 3:1.
REINFORCED FABRIC (OPTIONAL) MAY BE USED UNDER THE CONSTRUCTION OR FOR SOIL WITHIN A HIGH-SEASONAL WATER FLOW TO PROVIDE GREATER BEARING CAPACITY.
CONSTRUCTION ENTRANCE/EXIT DETAIL: SEE FIG. 10-1.

Inlet Protection

do not block inlet entirely to prevent flooding

STORM INLET SANDBAG PROTECTION
NOTES:
1. SANDBAGS TO BE PLACED IN ROWS TO PREVENT FLOODING.
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STRAW BALE INLET PROTECTION
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KEY NOTES:

- Property owners must comply with local, state and federal regulations
- Temporary erosion/sediment control measures must be maintained until the ground is stabilized
- Maintain positive drainage away from structures
- Permanent seed/sod all bare soil areas at final grade as soon as possible

For additional information regarding storm water quality contact:
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<http://cedarlakein.org/>

STANDARD DRAWINGS:

