## SEDIMENT & EROSION CONTROL CRITERIA

In order to control sediment pollution of water resources the owner or person responsible for the development area shall use conservation planning and practices to maintain the level of conservation established by the following standards:

TIMING OF SEDIMENT–TRAPPING PRACTICES: Sediment control practices shall be functional throughout earth–disturbing activity.

Settling facilities, perimeter controls, and other practices intended to trap sediment shall be implemented as the first step of grading and within seven days from the start of grubbing. They shall continue to function until the upslope development area is restabilized.

STABILIZATION OF STRIPPED AREA: Stripped areas shall have soil stabilization applied within seven days if they are to remain dormant for more than forty–five days. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site, and shall also be applied within seven days to denuded areas which may not be at final grade, but will remain dormant (undisturbed) for longer than forty–five days.

SEDIMENT BARRIER: Street flow runoff from stripped areas shall be filtered or diverted to a settling facility.

STORM WATER INLET PROTECTION: All storm sewer inlets which accept water runoff from the development area shall be protected so that sediment–laden water will not enter the storm sewer system without first being filtered or otherwise treated to remove sediment, unless the storm sewer system drains to a settling facility.

WORKING IN OR CROSSING STREAMS:

A. Streams including beds and banks shall be restabilized immediately after in–channel work is completed, interrupted, or stopped.

To the extent practical, construction vehicles shall be kept out of streams. Where in–channel work is necessary, precautions shall be taken to stabilize the work area during construction to minimize erosion.

B. If a live (wet) stream must be crossed by construction vehicles regularly during construction, a temporary stream crossing shall be provided.

CONSTRUCTION ACCESS ROUTES: Measures shall be taken to prevent soil transport onto surfaces where runoff is not checked by sediment controls, or onto public roads.

Sloughing and Dumping:

A. No soil, rock, debris, or any other material shall be dumped or placed into a water resource or into such proximity that it may readily slough, slip, or erode into a water resource unless such dumping or placing is authorized by the City Engineer and, when applicable, the U. S. Army Corps of Engineers, for such purposes as, but not limited to construction bridges, culverts, and erosion control structures.

B. Unstable soils prone to slipping or landsliding shall not be graded, excavated, filled or have loads imposed upon them unless the work is done in accordance with a qualified professional engineer's recommendations to correct, eliminate, or adequately address the problems.

CUT AND FILL SLOPES: Cut and fill slopes shall be constructed in a manner which will minimize erosion. Consideration shall be given to the length and steepness of the slope, soil type, upslope drainage area, groundwater conditions, and slope stabilization.

STABILIZATION OF OUTFALLS AND CHANNELS: Outfalls and construction of modified channels shall be designed and constructed to withstand the expected velocity of flow from a post–development, ten–year frequency storm without eroding.

ESTABLISHMENT OF PERMANENT VEGETATION: A permanent vegetation shall not be considered established until ground cover is achieved which, in the opinion of the approving agency, provides adequate cover and is mature enough to control soil erosion satisfactorily and to survive adverse weather conditions.

DISPOSITION OF TEMPORARY PRACTICES: All temporary erosion and sediment control practices shall be disposed of within thirty days after final site stabilization is achieved or after the temporary practices are no longer needed, unless otherwise authorized by the approving agency. Trapped sediment shall be permanently stabilized to prevent further erosion.

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| APPROVED 8-19-93<br>Scott Huston<br>CITY ENGINEER<br>REVISED: | EROSION CONTROL NOTES | CITY OF LANCASTER, OHIO<br>DEPARTMENT OF ENGINEERING<br>STANDARD CONSTRUCTION DRAWING<br>DWG. BY: C.S.W. CHK'D BY: R.M.<br>FILE NUMBER D–11½ |

MAINTENANCE: All temporary and permanent erosion and sediment control practices shall be designed and constructed to minimized maintenance requirements. They shall be maintained and repaired as needed to assure continued performance of their intended function. The person or entity responsible for the continued maintenance of permanent erosion controls shall be identified to the satisfaction of the plan—approving authority and identified by the subdivider's agreement.

The cost for temporary channels, sediment dams and other appurtenant earth moving operations shall be included in the price bid for earthwork.

## SEQUENCE OF SEDIMENT & EROSION CONTROL OPERATIONS

A. Begin clearing and grubbing, rough grading of street areas, strip topsoil and unusable material.

B. Install gravel and access drive and perimeter filter (topsoil berm and/or filter barrier) and stream crossings.

C. Install sanitary sewer and watermain.

D. Construct storm sewers during construction of storm sewers and inlet ends of all open pipes shall be protected by filter barriers or other approved means. Install rock channel protection where called for in plans.

1. Promptly upon backfill of storm structures, filter barriers shall be placed.
2. Construct temporary swales to drainage structures.
3. When filter barriers are removed from around pavement catch basins to allow for stripping, grading, and paving, storm structure shall be protected from eroding earth and sediment at all times.

E. Excavate for curb and gutter and fine grading of streets. If placement of base lags behind the final sub—base grading by more than five days, sub—base shall be scarified perpendicular to the slope to prevent erosion.

F. Upon completion of base paving, the area around pavement shall be protected from erosion by an approved method consistent with the growing season.

G. Any remaining exposed areas shall be seeded and mulched or sodded within 30 days of final grading.

## MAINTENANCE

1. Sediment control measures should be inspected Immediately after each rainfall and at least daily during prolonged rainfalls. Any necessary repairs shall be made immediately. Close attention shall be made to possible damaged materials, end runs, piping undercutting, and seepage.
2. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one—half the height or volume of the device.
3. Should the material or the sediment control device decompose, become clogged or otherwise become ineffective prior to the end of its expected usable life and the device is still necessary, the device shall be replaced promptly.
4. Any sediment deposits remaining in place after the erosion control devise is no longer required shall be graded and dressed to conform with the existing grade, prepared and seeded. This work shall be performed within 30 days after final site stabllization.

APPROVED 8-19-93

Kent Huston
CITY ENGINEER

REVISED:

EROSION CONTROL NOTES

CITY OF LANCASTER, OHIO
DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DRAWING

DWG. BY: C.S.W
CHK'D BY: RM

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