

# City of Charlotte

## Land Development Service

### Detention As-Built Checklist <sup>2004</sup>

**Project Name** \_\_\_\_\_ **Date Reviewed** \_\_\_\_\_  
**Reviewer** \_\_\_\_\_ **Phone #** \_\_\_\_\_  
**Contact** \_\_\_\_\_ **Phone #** \_\_\_\_\_

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#### GENERAL SUBMITTAL REQUIREMENTS

Note: Should constructed storage volume, orifices or weirs deviate from proposed, a detention analysis may be required from the engineer.

- \_\_\_\_\_ Provide a plan of constructed ponds, structures, and drainage systems providing detention sealed by a professional surveyor.
- \_\_\_\_\_ Title block w/ site name & location.
- \_\_\_\_\_ Identify benchmark.
- \_\_\_\_\_ Legible scale (must be able to verify surface areas for constructed contours).
- \_\_\_\_\_ Labeled contours (all contours must close and not exceed 2 foot intervals).

#### ABOVE GROUND DETENTION

##### Pond

- \_\_\_\_\_ Provide surface area for each contour of constructed pond.
- \_\_\_\_\_ Provide sufficient spot elevations for top of berm to determine the lowest point of containment.

##### Outlet Structure

- \_\_\_\_\_ Provide a detail of outlet structures with all dimensions (including invert and top of structure).
- \_\_\_\_\_ Label all invert elevations and dimensions for lower level orifices.
- \_\_\_\_\_ Label all invert elevations and dimensions for weirs.
- \_\_\_\_\_ Provide outlet pipe inverts, size, length, and slope.

##### Emergency Spillway

- \_\_\_\_\_ Provide a detail of the emergency spillway.
- \_\_\_\_\_ Provide and label spot elevations of weir bottom to determine invert, width (top and bottom), and length.
- \_\_\_\_\_ Identify spillway-lining material.

#### UNDERGROUND DETENTION

##### Pipe System/ Manifold

- \_\_\_\_\_ Provide a complete and accurate survey of pipe systems used for detention (include manifold section).
- \_\_\_\_\_ Label upstream and downstream inverts for all pipes.
- \_\_\_\_\_ Label all pipe sizes, lengths, and slopes.
- \_\_\_\_\_ Identify pipe material.
- \_\_\_\_\_ Show and label all maintenance access structures (include RIM elevations).
- \_\_\_\_\_ Provide a detail of outlet structure.
- \_\_\_\_\_ Label all invert elevations and dimensions for lower level orifices.
- \_\_\_\_\_ Provide location and overflow elevation for 50-year relief flow (catch basin, manhole, weir, etc).