

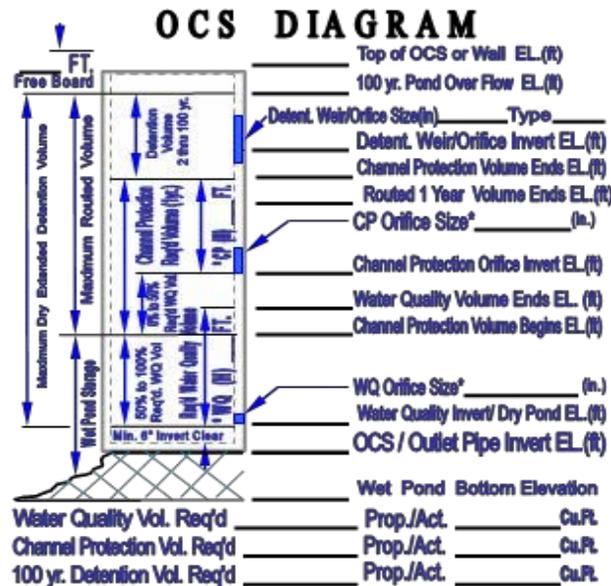
AS-BUILT SURVEY REQUIREMENTS

AS-BUILT SITE SURVEY REQUIREMENTS

1. Cover sheet should include project name, parcel #, address, phone number of firm responsible for preparing the plans. Name, address, phone number of property owner.
2. Provide table on cover sheet with the parcel, lot number, address and asbuilt impervious surface area in square feet for each lot on property.
3. Seal and signature of engineer and surveyor.
4. Show asbuilt buildings, structures, landscape strips, zoning buffers, streams and stream buffers, flood zones, wetlands, building setbacks, and all easements.
5. Show and label sanitary sewer, water lines, and any other known utilities. Show pipe crossings.
6. Provide elevation at the bottom and top of retaining walls (if applicable).

STORMWATER AS-BUILT SURVEY REQUIREMENTS

1. Show and label the whole storm drainage system. Provide structure IDs, structure type, diameter, length, slope, material, in and out invert elevations, and top elevations. Label all stormwater management facilities such as detention ponds, water quality BMPs, and other structural controls including inlet headwalls, weirs, bypasses, diversions, etc.
2. Show all drainage easements. Show 10' access easement around detention facility and 20' cleared access easement to facility.
3. Show 100-year ponding limits of the pond.
4. Provide additional sheet with the pipe asbuilt profile sheet and table - for all storm pipes, detention facilities, water quality BMPs, and structures. Label structure IDs, structure type, pipe diameter, length, slope, material, in and out invert elevations, and top elevations.
5. Provide a cross-section diagram of each detention facility labeling all structures, providing water quality, channel protection, 25-year and 100-year elevations and volumes, spillways, and detail of outlet control structures with orifice



and weir sizes and elevations. Diagram should show any permanent pool elevations, forebays, wall elevations, outlet pipes, trash racks, etc. Provide outlet pipe velocities and depth and size of rock outlet protection. Example:

AS-BUILT HYDROLOGY REPORT

1. Provide an As-Built Hydrology Study signed and sealed by Professional Engineer.
2. Study must state and verify that the Stormwater Management Facility(s) were constructed in conformance with the approved hydrology report and construction plans per the land disturbance permit.
3. Provide summary table showing as-built routed peak flow rates for the 1, 2, 5, 10, 25, 50, & 100-year storms compared to the design peak flow rates.
4. Provide an as-built 10% downstream peak flow rate compared to design.
5. Provide hydrograph recaps, hydrographs, and hydrograph summaries for 1, 2, 10, 25, & 100 - year storm events.
6. Provide adjusted as-built calculations for WQ & CP volumes and orificesizes.
7. Provide a pond summary report with a stage/storage table starting at the required routing elevation with orifices, weirs, culverts, and discharge data used to develop pond routing hydrographs.
8. Provide on-site and off-site delineated basin area maps with impervious areas to the as-built pond.