07.13 AS-BUILT DRAWING CHECKLIST

1. AS-BUILT INFORMATION

Submitted by_____

Phone # _____

CHECK ONE

- ❑ (Please check) Blue Line For Review Only
- ❑ Mylar or Vellum (Final)

Transmittal Date _____

2. GENERAL AS-BUILT INFORMATION

_____ A. Copy of recorded plat or deed of easements, indicating easements and right of way
_____ B. Boundary of tract by courses and distance with references
_____ C. Tie to N.C. grid coordinate system
_____ D. Vicinity map
_____ E. Scale of drawings and bar scale
_____ F. North arrow
_____ G. Location of benchmark with M.S.L. elevations
_____ H. Seal and signature of North Carolina registered P.E. or P.L.S. that generated as-built drawings on each sheet per NCBELS Board Rule – 21 NCAC 56 .1103
_____ I. All easements identified and dimensioned
_____ J. Statement designating drawings are "as-built" on each sheet
_____ K. Digital copy of the Final As-built PDF signed and sealed
_____ L. Summary Information File in an ASCII file format that contains the following items:
  1) Project Name,
  2) Name of Firm that prepared the data,
  3) Date the data was prepared,
  4) Specification of two or more survey control monuments established and/or used for the project
  5) A statement that indicates the horizontal and vertical datum of the control monuments.
_____ M. AutoCad (DWG or DXF format) drawing files submitted in conformance with Section 01.11 AS-BUILT DRAWING REQUIREMENTS.

3. STREETS

_____ A. Horizontal alignment with radii, P.C.'s, and P.T.'s of all curves
_____ B. Vertical alignment with centerline grades, vertical curve lengths and station and elevation of all PVC's and PVT's and centerline profile
_____ C. Dimensioned right of way and street widths
_____ D. Pavement section
_____ E. Typical cross section
_____ F. Horizontal and vertical sight lines
_____ G. Delineation of landscaping limits and materials

4. STORM DRAINAGE SYSTEMS

_____ A. Electronic (PDF) copy of as-built plans of constructed structures, pipes, channels, and drainage easements.
_____ B. Supplemental digital file for City records in AutoCAD format meeting the City's current standards
_____ C. Cover Sheet with Professional Engineer and Registered Surveyor Certifications.
_____ D. Site Plan or Grading Plan with all storm system structures identified to match the approved Plans.
_____ E. 100- year flood plain boundary shown and labeled, if applicable.
_____ F. Easement dedication for storm drainage extensions outside right of way shown with bearings and distances.
_____ G. Pipe material per the approved plans.
_____ H. Pipe size, slope, and length (design values text struck-through and constructed values labeled).
_____ I. Structure rim elevations (center of grate at lip) and invert elevations.
_____ J. Grate elevations for grated yard inlets, throat opening dimensions and inverts for "slab type" yard inlets. Provide sufficient spot elevations for finished grade around inlet to confirm that the required sump has been provided.
_____ K. Size and depth of riprap dissipation pad
_____ L. Minimum 2 feet of cover provided in Public Rights of way or provide verification that Class IV Reinforced Concrete Pipe or another approved pipe was installed.
_____ M. Statement of stormwater velocity and discharge at all outlets.
_____ N. Professionally sealed as-built pipe profiles with plotted hydraulic grade line (HGL) to confirm constructed system meets intent of the approved plans.
_____ O. Provide ditch/channel cross-sections to define the ditch section and slope as shown by the approved plans, plotted to scale at 100 feet maximum intervals with minimum of 2 cross sections per ditch with adequate spot elevations. Label distances between spot elevations on the cross sections (Receiving one acre or more of drainage area),

_____ P. Show and label ditch/channel cross sections on the plan view.

Note: Any new or revised storm drainage systems or easements shown on as-built plans may require a review of revised subdivision plans, engineering calculations, and drainage area maps.

5. STORMWATER CONTROL MEASURES (SCM)

_____ A. Show and label the 100-year flood plain boundary, if applicable

_____ B. Pipe material, diameter, slope, and length (design values text struck-through and constructed values labeled)

_____ C. Show structure orifice and/or weir dimensions and elevation(s) (design and constructed)

_____ D. Show structure invert and top elevations (design and constructed)

_____ E. Dimensions and depth of riprap dissipation pad

_____ F. Show limits of permanent SCM(s) in Plan view

_____ G. Show and label limits of filter media (soil or sand), if applicable

_____ H. Water Quality Storage Volume (design and constructed volumes)

_____ I. Water Quantity Storage Volume (design and constructed volumes), if applicable

_____ J. Contour elevations at 1-foot intervals

_____ K. Permanent easement around SCM(s)

_____ L. Clean out and underdrain system, if applicable

_____ M. Show location and dimensions of all impervious coverage and show the total amount of impervious coverage built as a percentage of the total site in a summary table.

_____ N. Permanent pool elevation, spillway elevation, top of bank elevation, depth, and surface area.

City of Monroe Use Only

As-Builts Reviewed by_____ Date _____

CHECK ONE

- ❑ Approved _____ Date _____
- ❑ Returned _____ Date _____