CHARLOTTE STORM WATER SERVICES – LAND DEVELOPMENT REVIEW
Infiltration SCM - As-Built Plan Checklist[2022]

Project Name _____ **Date Reviewed** _____
Reviewer _____ **Phone No.** _____
Contact _____ **Phone No.** _____

GENERAL SUBMITTAL REQUIREMENTS

Note: If the constructed stone depth or surface area varies significantly from design, a new detention/Stormwater Control Measure (SCM) analysis may be required from the engineer.

_____ A sealed as-built plan will be provided by the project design professional for all storm systems and BMP facilities. nclude the following note with PE seal certifying that the SCM(s) have been constructed in accordance with the approved design plans: *The as-built storm water measures, controls, and devices are in compliance with the approved storm water management plans and designs and with the requirements of the Post-Construction Controls Ordinance.*

_____ Completed Inspection Checklist for "Infiltration Trench" https://mecklenburgcounty.exavault.com/p/waterquality/PCO%20Forms/BMP_Maintenance_Inspection_Checklists_PCO21/

_____ Photo documentation of the completed SCM with each item in the Inspection Checklist clearly visible

_____ A supplemental digital file is needed for City records and will be uploaded to Accela in AutoCAD format shown with the layer configurations described in Section 11.4 of the PCCO Administrative Manual.

_____ All as-built plans will be based on NAD 83/1986 and tied to the North Carolina State Plan Coordinates System (NC GRID) with all BMPs shown and located by x and y coordinates.

_____ All vertical data to be referenced to NAVD 88, labeled as such on the as-built survey

_____ All storm system structures identified and labeled the same as the approved plan. All structure elevations are to include an invert elevation, a top of grate (at grade) elevation and any opening elevations used for storm water intake purposes. All data is to be verified to the closest hundredth of a foot (0.01).

_____ All storm system pipes identified and labeled the same as the approved plan with upstream and downstream invert elevations, the total length of the pipe run from end to end, with the calculated slope. All data is to be verified to the closest hundredth of a foot (0.01).

_____ Name, location, size and elevation of the SCM actually constructed (includes contours within the SCM easement at no greater than two-foot intervals).

_____ As-built standard SCM/BMP Inset Table, updated as appropriate for as-built conditions

_____ Location and elevation of SCM storm drainage infrastructure inlets, outlets and locations and sizes of pipes and culverts within or leading to/from the facility.

_____ Legible scale

INFILTRATION SCM REQUIREMENTS

_____ Provide sufficient measurements of surface area of infiltration trench stone

_____ Provide sufficient stone depth measurements to verify approved depth has been achieved

_____ Locate monitoring/observation well locations, with rim and invert elevations labeled

_____ Show location and top elevation of baffles separating zones within the stone bed if included

_____ Provide an as-built detail of any detention outlet control structure(s) within the Infiltration SCM; label all dimensions (including invert and top of structure, material, dimensions, etc.)
_____ Provide system outlet pipe material inverts, size, length, and slope.

Surface trench:
_____ Labeled contours (all contours must close and not exceed 2 foot intervals)
_____ Provide surface areas for each contour on as-built plan
_____ Provide sufficient spot elevations for top of berm to determine the lowest point of containment

Underground system:
_____ Provide a complete and accurate survey of pipe systems used for detention (include manifold section).
_____ Label upstream and downstream inverts for all pipe systems.
_____ Label all invert elevations and dimensions for orifices and weirs or baffles
_____ Label all pipe material, sizes, lengths, and slopes
_____ Show and label all maintenance access structures (include RIM elevations).
_____ Provide location and overflow elevation for 50-year relief flow (catch basin, manhole, weir, etc).

MAINTENANCE AGREEMENT

_____The Operations & Maintenance and Easement Agreement is to be recorded prior to as-built approval. See https://charlottenc.gov/ld/Documents/PCSO%20Operations%20and%20Maintenance%20Agreement%20and%20Easement%20Agreement%202016.pdf
_____Must include plat or exhibit showing PCCEs and Natural Area as needed.

Note: Any new or revised storm drainage systems or easements shown on as-built plans may require a subdivision plan revision along with engineering calculations and drainage area maps.

December 2022