

07.06.02 EROSION CONTROL PLAN CHECKLIST

This Erosion Control Plan Checklist shall accompany all plan submittals or the submittal shall be considered incomplete. Items not applicable should be marked "N.A." Refer to City Of Monroe "Standard Specifications and Detail Manual", City Of Monroe Land Use Ordinance, Title XV, Chapter 158, and NCDENR Design Manual, latest edition. Prior to Erosion and Sedimentation Control Plan approval, all applicable plan submittals and approvals from the Engineering Department shall be obtained, including but not limited to watershed, roadway and storm drainage, City and State driveway permits and encroachments. All plans must be submitted concurrently with the erosion control plans.

_____ Maximum plan sheet size is 24"x 36".

_____ Show a north arrow and vicinity map on the erosion control plan.

_____ Show a final grading plan, if different from the erosion control plan.

_____ The maximum scale is 1" = 50'.

_____ Show all property lines and right-of-ways.

_____ Show sidewalks in accordance with Section 02.02.06 - Sidewalk Requirements.

_____ Show a legend. Call out each measure on the plan. The legend symbols and plan should match.

_____ Show water and sewer erosion control measures on erosion control plan. Show the size and location of existing and proposed storm and sewer structures.

_____ Show existing and proposed (2 foot or 1 foot) contours.

_____ Show denuded areas (outline in BOLD on plans and note denuded acreage on plans).

_____ Show planned and existing buildings locations and FFE.

_____ Show planned and existing roads locations, elevations and profiles.

_____ Show lot and/or building numbers.

_____ Show seeps, springs, or wetland limits.

_____ Show all easement lines.

_____ Show boundaries of the total tract of land where disturbing activity will take place.

_____ Show borrow, waste areas, and stockpiled soil locations.

_____ Show existing and planned drainage areas including off-site areas that drain through the project area.

- _____ Indicate the size of drainage areas above drainage structures.
- _____ Show soil type(s) and special characteristics.
- _____ Show design calculations for peak discharges of runoff.
- _____ Show a watershed plan.
- _____ Show a storm drainage plan.
- _____ Show design calculations per Section 04.00 of the City Of Monroe Standard Specifications and Detail Manual and construction details for storm and sewer structures.
- _____ Show design calculations per Section 04.00 of the City Of Monroe Standard Specifications and Detail Manual, cross-sections and method of stabilization of existing and planned channels per the NCDENR Design Manual, latest edition.
- _____ Show design and construction details of energy dissipaters below storm outlets including the size of stone used for rip rap per the NCDENR Design Manual, latest edition.
- _____ Show design calculations and construction details to control groundwater per the NC DENR Design Manual, latest edition.
- _____ Impervious Coverage:
Existing _____ Parcel Area _____
Proposed _____ % Coverage _____
- _____ NCDOT Driveway Permit and/or City Of Monroe Driveway Permit/Encroachments
- _____ Copies of written approvals from USACOE and/or NC Dept. of Water Quality and other applicable approvals.
- _____ Show all perennial and intermittent stream buffers and show widths. Add note requiring orange net fencing along all stream buffers.
- _____ The Developer must obtain the written permission of the adjacent property owner(s) for any off-site grading or construction prior to construction drawing approval.
- _____ Show the name of the first watercourse into which storm water leaving the site is tributary.
- _____ Show the location of all temporary and permanent erosion and sedimentation control measures.
- _____ Show construction detail drawings for all temporary and permanent erosion and sedimentation control measures per the City Of Monroe Detail Manual.
- _____ Show all design calculations for sediment basins and sediment traps per the NCDENR Design Manual, latest edition. Note: Minimum of 3 coir fiber baffles per the NCDENR Design Manual.

- _____ Label basin contours. Tie into existing contours. Show basin dimensions and weir lengths on the plans.
- _____ Show wetland protection measures (Orange net fence).
- _____ Show temporary stream crossings (work along streams, lakes, ponds and wetlands) and details of how each will be stabilized.
- _____ Show maintenance requirements of temporary erosion and sedimentation control measures during construction.
- _____ Indicate the name and phone number of the person who is responsible for maintenance of temporary measures during construction on the plans.
- _____ Show maintenance requirements of permanent erosion and sedimentation control measures following construction.
- _____ Indicate the name and phone number of the person who is responsible for maintenance of permanent measures following construction on the plans.
- _____ Show all areas and acreage to be vegetatively stabilized.
- _____ Drainage area maps clearly and legibly depicts on-site and off-site areas (colored coded maps encouraged). All drainage area maps indicate project limits and are at a legible scale.
- _____ Show planned vegetation with details of plants, seed, mulch, and fertilizer. Include Seeding Requirement 03.03.02 from the City Of Monroe Standard Specifications and Detail Manual.
- _____ Show specifications for permanent and temporary vegetation.
- _____ Indicate the specified method of soil preparation.
- _____ Attach the Financial Responsibility Form from Standard 07.07.01 of the City of Monroe Standard Specifications and Detail Manual.
- _____ Attach bid specifications regarding erosion and sedimentation control measures.
- _____ Indicate setback for streams outside the designated floodplains - 5 times width of top of bank or 20 feet on each side, whichever is greater, as measured from the top of bank.
- _____ 100-year flood plain (old and, if needed, new) and base flood elevation.
- _____ Show all proposed and existing utilities including, but not limited to water lines, valves, hydrants, sanitary sewer lines, manholes, gas lines, valves, telephone, cable television, and electric lines and poles.

_____ Deviations from the City of Monroe Standard Specifications and Detail

Manual must be clearly noted on the plan. (*The Developer must request any deviation from the Detail Manual in writing along with justification for review and recommendation by Staff prior to plan review*). Modifications to the City Of Monroe Standard Details require that the City's title block be removed from the detail.

_____ The following notes will be included on all plan sets:

1. If disturbing less than 1 acre, add this note: Ground cover on exposed slopes shall be applied within 14 working days following completion of any phase of grading. Permanent ground cover for all disturbed areas shall be applied within 15 working days or 60 calendar days, whichever is sooner. Slopes left exposed will, within 14 calendar days of completion of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.
2. If disturbing 1 acre or more, add this note: As required by the NPDES General Permit NCG010000, all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land disturbing activity. All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land disturbing activity. Ground stabilization timeframe exemptions can be found in the NPDES General Permit NCG010000 under Section 2.b. Ground Stabilization.
3. No land disturbing activity, except that which is required to install erosion control measures, may commence prior to approval by the Engineering Director of Certification Form 1-01.
4. Additional erosion control measures may be required based upon specific site conditions.
5. Contact the City of Monroe Engineering Department, at 704-282-4515, for a pre-construction meeting prior to any land disturbing activity.
6. Remove all temporary erosion control devices and structures only after site is fully stabilized and approval has been obtained from the City of Monroe Engineering Department.
7. All erosion control designs shall be in accordance with the City of Monroe Standard Specifications and Detail Manual, and the NCDENR Erosion and Sedimentation Control Planning and Design Manual, latest edition.
8. For phased erosion control plans, the Contractor shall meet with the Erosion Control Specialist prior to commencing each phase of erosion control measures.
9. Site grading is to be covered under the General Stormwater Permit

NCG010000. Any land disturbing activity > 1 acre requires compliance with all conditions of this general permit under the NPDES. Any noncompliance is a violation of the Clean Water Act and may require enforcement by NCDENR.

10. Contractor is to keep street clear of mud and other debris per the City of Monroe Mud Ordinance, Title VII, paragraph 71.20.
11. The Professional Engineer registered with the State of North Carolina who prepared the Erosion Control Plan is solely responsible for identification and location of all environmental wetlands, perennial and intermittent streams and buffers shown on the plans.
12. The City of Monroe is not responsible for the accuracy and adequacy of the design, dimensions, and elevations, which shall be confirmed and correlated at the job site. The City of Monroe, through the approval of this document, assumes no responsibility for the completeness and/or accuracy of this document.
13. Silt sacks will be placed in basins/inlets along roadways after initial asphalt surface work is completed.
14. The financially responsible party/agent or the landowner/agent of a land disturbing activity > one acre is required to self-inspect the project. A self inspection, as well as documentation of a project after each phase of the project, is required.

_____ Include Scheduling Notes 03.01.03, and Construction Notes 03.03.01 as well as all pertinent Division 08.00 Erosion Control Details from the City of Monroe Standard Specifications and Detail Manual on all plan sheets.

_____ Provide Construction Sequence 03.01.04 notes 1 through 11 as well as any additional notes necessary to describe the basic sequence of events on the site.

_____ Projects disturbing one acre or more in area are automatically covered by the NPDES General Stormwater Permit NG010000 for construction related activities, provided that basin design requirements and ground stabilization requirements from that permit are included on the erosion control plan. To meet this requirement, include the ground stabilization timeframe table from Section 3.02.01 Temporary Measures from the City of Monroe Standard Specifications and Detail Manual and basin design requirements on the erosion control plan and/or detail sheet, if disturbing 1 acre or more.

_____ NPDES General Stormwater Permit NG010000 requires plans to identify areas where the 7 and 14 day ground stabilization requirements will apply. Please show areas on erosion control plan by using hatching, labeling, or other similar conventions.

_____ Erosion Control Review Fee.

_____ Bond Amount in the form of certified check, cash, or irrevocable letter of credit.