



South Carolina
Department of Transportation

February 12, 1999

INSTRUCTIONAL BULLETIN NO. 99-3

SUBJECT: New Drainage/NPDES CADD Procedures For Consultants

EFFECTIVE DATE: February 17, 1999

SUPERSEDES: Instructional Bulletin No. 94-5

RE: None

Consultant should follow the SCDOT Highway Design Manual guidelines for CADD plan preparation with the following adjustments for Drainage and NPDES CADD plans.

MEDIA - FILE TRANSFER

South Carolina Department of Transportation design files will be supplied on CD or 3.5" floppy diskettes, for smaller size projects, in MicroStation format. Also, included will be a hard copy of the plan sheets. Consultants will return files in the same format and media. Cross-sections will be supplied in bond paper hard copy format and not electronically, unless the consultant makes a special request and is able to accept electronic cross-sections that were generated by the department's roadway design software. Consultants will also be assigned a unique FTP login on the SCDOT web server for transfer of additional and updated files during the duration of the project, the consultant should contact Road Design for login if not previously assigned.

MISCELLANEOUS INFORMATION

Printouts of existing drainage elevations, outfall ditches and any other pertinent information will be supplied by SCDOT Road Design Section as needed.

FILE NAMING CONVENTION

Consultants will be supplied with design files with the following naming guidelines of c1234pp.dgn, c1234pf.dgn or c1234fx.dgn where as the "c" is for consultant, the numbers represent the project's pin number, and "pp", "pf" or "fx" standing for plan and property, plot file and final cross-sections respectively. Any border design file reference files, not previously supplied, will be included as needed for each project on the CD.



These reference files may also be accessed via SCDOT's Internet web page at:

www.dot.state.sc.us/Road Design/consultants/frcaddfiles. Html

Levels - Symbology - Guidelines

Consultants will follow the SCDOT Level Chart when adding new design elements or text labeling to these design files.

All new pipe will be placed on lv=34, wt=15 in design file c1234pp.dgn. New drainage structures and outfall ditches are placed on lv=35, wt=2 in design file c1234pp.dgn. Notes and descriptions for new pipe, drainage structures and outfall ditches should be placed on lv=36, wt=2 in design file c1234pf.dgn.

NPDES items should be placed on lv=37, wt=2 in design file c1234pp.dgn and text labeling of these items should be placed on lv=38, wt=2 in design file c1234pf.dgn. This leveling scheme follows our standard file setup of adding new design elements to the *pp.dgn file and any text labeling to the *pf.dgn file as this will allow us to merge your additions to our original design files upon return to the Department.

Various drainage symbols and pipe line styles are included in Road Design's MicroStation Cell libraries and line style resource files located on the SCDOT Road Design Internet Web Page at: www.dot.state.sc.us/RoadDesign/consultants/frcaddfiles.htm

They will also be included on the delivered CD.

Consultants should not modify, change or delete any elements in these design files, except on your assigned levels, unless special permission is obtained from SCDOT Road Design Section. Consultants should also not change files working units, global origin or coordinates.

NON-CADD PROJECTS

In the event SCDOT cannot supply CADD files for a project, bond hard copies of the plans will be provided. Consultants should add new pipe, drainage structures, outfall ditches and notes to plan sheets in red and new NPDES items and text in green. Department personnel will place those new additions onto the original plans upon return to Road Design.

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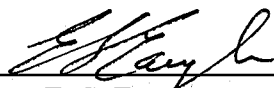
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New Drainage Design and NPDES can be shown on the same plan sheet, but for clarity, it is recommended to show these items on different plan sheets.

QUANTITIES

Estimated quantities for added design must be shown on the standard "Summary of Estimated Quantities" plan sheet. Quantities not detailed on the plan sheets are to be shown in the "General Construction Note" in the plans. An Erosion Control Data and Summary of Quantities for Drainage Items sheets will be used to tabulate and document these items and will be provided via the delivered CD or Internet.

Approved: _____



E. S. Eagle
Road Design Engineer

ESE:jbs

cc:

Federal Proj. Dev. Engr. Pratt

"C" Proj. Dev. Engr. Kneece

File:PC/ESE

bc:

Road Design (2)