

BERKELEY COUNTY

ENGINEERING

ROADS & DRAINAGE

REVIEW CHECKLIST

SEPTEMBER 2015

BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST

6. CONSTRUCTION PLANS

The construction plans shall be prepared by a certified professional engineer and be submitted as part of the Preliminary Plan application package in accordance with the Land Development & Subdivision Regulations Ordinance and shall include, but not be limited to, the following:

| Construction Plans Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| Title/Cover Sheet | | | | | | | | |
| •Provide Vicinity Map or Location Map with north arrow and applicable scale. | | | <input type="checkbox"/> |
| •Provide Site Map with north arrow and applicable scale. | <input type="checkbox"/> |
| •Provide Tract Name, TMS No., and Block No. as applicable. | | | <input type="checkbox"/> |
| •Clearly indicate project phase lines. | | | <input type="checkbox"/> |
| •Show name, address and phone No. of Engineer of Record. | <input type="checkbox"/> |
| •Show name, address and phone No. of Applicant/Developer. | <input type="checkbox"/> |
| •Provide name and Seal of a South Carolina Registered Professional Engineer, Surveyor, Architect or Landscape Architect and Firm's Certificate of Authorization responsible of developing the plans on every sheet. | <input type="checkbox"/> |
| •Show location of proposed land development boundaries, public roads, adjacent zoning districts, etc. | <input type="checkbox"/> |
| •Provide date of drawings and any revisions. | <input type="checkbox"/> |
| •Provide project team contact and phone numbers. | <input type="checkbox"/> |
| •Statement of the project roadway length, including incidental construction. | | | <input type="checkbox"/> |
| •Verify that sheet indices, descriptions and numbers, are correct and consistent with the rest of the sheets. | | | <input type="checkbox"/> |
| •Provide a brief description of the project highlighting the most pertinent work. | <input type="checkbox"/> |
| •Provide one-call utility location contact information and logo. | <input type="checkbox"/> |
| Comments: | | | | | | | | |

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| Construction Plans Preliminary/Final Plat Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Provide a copy of the recorded plat or a current survey of the property. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show date of survey, lot and block numbers, names of adjoining landowners, highways, streets, etc. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show North arrow, scale and location map. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show property line with accurate property description, property markers, and bench marks. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide TMS and tract numbers. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show public and private easements properly identified including lengths and widths deemed necessary to clearly show its purpose. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show natural drainage patterns and water resources, including rivers, streams, drainage swales, ponds, lakes, wetlands, etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Include USACE jurisdictional determination reference number for wetland areas | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide Surveyors Certificate and Seal conforming to the "Standards of Practice Manual for Surveying in South Carolina" as adopted in June 26, 2009. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | | | |

| Construction Plans Project Notes and Legend Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Provide title block including project name, title sheet and number. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show general and project specific notes. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show project legend for existing and proposed conditions. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show floodplain information, including FEMA flood hazard zone designation. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | | | |

**BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST**

| Construction Plans Existing Conditions Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Provide title block including project name, title sheet and number. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide plan at the scale indicated and accurate north arrow. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Clearly show all property lines and easements with bearing and distance (indicate source of survey), adjacent landowner's names and land use conditions. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show benchmark location, elevation and datum. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Name, location and widths of all public rights-of-way (including curb/handicapped ramps), private streets and drainage ways. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide zoning information (TMS #'s of project site and adjacent parcels). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Outline activity location and indicate existing project phase lines (if applicable) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show existing topography (minimum 1' interval contours) and note source of topographic data. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show soil types. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show 100 year flood plain data (fringe line, elevation, floodway, and FEMA panel number) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Delineate natural drainage patterns, overland flow paths and water resources, including rivers, streams, drainage swales, ponds, lakes, wetlands. Show existing stormwater discharge locations. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show delineated wetlands (label as jurisdictional or non-jurisdictional) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show number of lots, if any, and area of each. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show location and of existing structures including signs on site. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show and label existing infrastructure, including, but not limited to storm drainage, water and sewer facilities, and other utilities such as electrical power, fiber optic cable, telephone, etc. on the plan. Make sure that data such as size, material, rim and invert elevations are shown as applicable. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| Construction Plans Existing Conditions Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Delineate location and size of parking spaces and sidewalks. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show existing traffic circulation and parking conditions. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show location of existing main entrance(s) and the location accessible route(s) from the accessible parking spaces. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide tree survey. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show significant physical features within the tract and 200 ft. adjacent peripheral strip, including contours, tree masses and notable trees not part of the tree masses. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show location of all above grade utility boxes (transformer, switch gear, etc.). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide percent of lot occupied by buildings (lot occupancy). | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide and label required building setbacks based on zone district and speed limit on adjacent street if applicable. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | | | |

| Construction Plans Survey Control Plan Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|---|-------------------|-----------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Provide title block including project name, title sheet and number. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Verify that the Boundary Survey has been prepared in accordance with the "Standards of Practice Manual for Surveying in South Carolina" as adopted in June 26, 2009. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Date of survey and references. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Surveyor's certification and seal. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •North arrow and reference (magnetic, state plane). | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Scale and graphical scale. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Tax map, block and lot numbers. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Adjacent lot numbers and owners names. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Bearings and distances of boundary. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Existing property markers. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| Construction Plans Survey Control Plan Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Existing features; structures, buildings, fences, wall, hedges, trees, wooden areas, marshes, ditches, lakes, etc. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show existing utilities, lighting and power poles, manholes, inlets, valves and meter boxes. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Encroachments over with dimensions. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Easements (type, size and ownership). | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Flood hazard zone, base flood elevation and reference to FEMA Map number. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show wetlands and critical areas including buffers. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show existing contours at 1' intervals with spot shots at critical locations. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show that the topographic survey shows elevations at one-foot (1') intervals based on the North American Vertical Datum of 1988 (NAVD88). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | | | |

| Construction Plans Demolition Plan Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| •Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Delineate buildings, utility mains and services to be cut and capped, abandoned and/or demolished. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Indicate what structures/ buildings to be retained. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show any existing structures, utilities, curbing, pavement, etc. required to be removed are clearly shown to be demolished (i.e. hatched, location of saw cut) and removed. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •If required demolition of existing infrastructure appears to present a hazard to the public, a chain link fence and gate should be installed around the perimeter of the site to deter said public from entering the site. A detail should be provided. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show tree protection fencing around all trees to be saved and indicate with an "X" over the trees to be removed. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide a dewatering plan if applicable. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

**BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST**

| Construction Plans Erosion Prevention & Sediment Control Plan Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| Phased EPSC Plans are required when land-disturbance is 5 acres or more: | | | | | | |
| <ul style="list-style-type: none"> - For <u>land-disturbance between 5 and 10 acres</u>, a two-phased stormwater management and sediment and erosion control plan is required for all non-linear projects. Each phase must be shown on a separate plan sheet. Plans should address the transition between phases. <ul style="list-style-type: none"> ➤ Phase 1 – Initial Land Disturbance – Must include perimeter sediment and erosion control BMPs required prior to initial/ mass clearing and other appropriate BMPs needed to maintain compliance with the permit. On some sites, this may include appropriate BMPs for demolition of existing structures ➤ Phase 2 – Stabilization - Sediment and erosion control BMPs required during the remainder of grading and construction. Must also include appropriate BMPs for stabilization – grassing, inlet protection, etc. - For <u>land-disturbance greater than 10 acres</u>, a three-phased stormwater management and sediment and erosion control plan is required for all non-linear projects. Each phase must be shown on a separate plan sheet. Plans should address the transition between phases. <ul style="list-style-type: none"> ➤ Phase 1 – Initial Land Disturbance – Must include perimeter sediment and erosion control BMPs required prior to initial/ mass clearing and other appropriate BMPs needed to maintain compliance with the permit. On some sites, this may include appropriate BMPs for demolition of existing structures. ➤ Phase 2 – Construction - Sediment and erosion control BMPs required during the majority of grading and construction activities. ➤ Phase 3 – Stabilization - Sediment and erosion control BMPs required near the completion of the construction project. Must also include appropriate BMPs for stabilization – grassing, inlet protection, etc. | | | | | | |
| •Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide plan at the scale indicated and accurate north arrow. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Review and ensure standard construction and erosion control notes per SCDHEC SWPPP Review Checklist are provided | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Legend showing what each measure, line types represent (verify consistency with plan view) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Construction schedule with timeline for each activity shall be included and must show at what point the sediment and/or erosion control measures will be implemented on site. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Provide seeding specifications and schedule per SCDOT specifications. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Verify maintenance responsibilities and agreement of BMP's as applicable. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show outline of activity location and indicate existing project phase lines (if applicable). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Show property lines and easements with bearing and distance (indicate source of survey), adjacent landowner's names and land use conditions clearly shown. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| •Clearly delineate the limits of disturbance. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

BERKELEY COUNTY ROADS & DRAINAGE
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| Construction Plans Erosion Prevention & Sediment Control Plan Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Existing and proposed contours for the entire disturbed area showing runoff patterns/overland flow paths. | <input type="checkbox"/> |
| • Curbing, storm drainage, water and sewer facilities are shown as grayscaled on the plan. | <input type="checkbox"/> |
| • Nearest labeled water bodies, discharge points, and receiving waters | <input type="checkbox"/> |
| • Show delineated wetlands, label as jurisdictional or non-jurisdictional. | <input type="checkbox"/> |
| • If impacts to Receiving Waters, areas of impact shall be outlined and labeled such that no work can begin in this area until all necessary USACE permits and SCDHEC 401 certifications have been obtained | <input type="checkbox"/> |
| • Double row or reinforced silt fence is required for disturbance within the 30' buffer (45' for sensitive waters) adjacent to all receiving waters that abut the project site. | <input type="checkbox"/> |
| • Clearly show and label tree preservation areas and associated tree protection fencing | <input type="checkbox"/> |
| • BMPs shall be properly placed (silt fence, inlet protection, construction entrance, rip-rap at outfalls, check dams etc.) | <input type="checkbox"/> |
| Comments: | | | | | | |
| • Erosion Prevention BMPs (section 3.2.6.I of the NPDES CGP) | | | | | | |
| - All slopes shall be designed and stabilized properly | <input type="checkbox"/> |
| - All channels and diversion ditches shall be able to accommodate the 10-year storm event with non-erosive velocities during construction and post-construction | <input type="checkbox"/> |
| - Check dams should be installed to reduce runoff velocities in areas of concentrated flow | <input type="checkbox"/> |
| - Verify that rip rap is shown at all point-source discharges and areas where storm water is constricted /conveyed in such a way as to produce high velocities | <input type="checkbox"/> |
| - For all slopes steeper than 1.5:1, stabilization practices shall be identified (e.g., ECB, TRM) | <input type="checkbox"/> |
| - Would other erosion / velocity control measures be helpful? | <input type="checkbox"/> |
| Note: Measures, in addition to grassing or hydroseeding, include synthetic or vegetative matting, diversion berms, temporary slope drains, etc. | | | | | | |
| Note: If retaining walls or fill slopes are to be constructed at the downstream property line, a 10' buffer is required for construction and maintenance. | | | | | | |
| Comments: | | | | | | |
| • Sediment Control BMPs (section 3.2.6.II of the NPDES CGP) | | | | | | |

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|---|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| - <i>Silt fencing should be shown adjacent to all wetland areas that abut the project site. Silt fencing should also be shown along property lines downstream of where construction activity is to take place. No silt fencing should be shown along property lines upstream of the project site.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Silt fence shall be used only in areas with drainage areas of less than ¼ acre per 100 LF of fence and shall not be used in areas with concentrated flows.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Temporary sediment traps should be used on relatively steep slopes where other erosion control measures cannot be implemented until such time as the storm drainage collection system is installed. Silt fencing may not be adequate for large areas of disturbance which are steep in nature.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Temporary sediment traps shall be used only for drainage areas of less than 5 acres.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>If sediment basins are to be used, ensure design provides for required surface water dewatering with a maximum discharge rate of the 10-yr storm inflow rate under 1 foot of depth over the weir.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Clean-out stake, marked at ½ the designed sediment storage depth, shall be provided in all sediment basins/sediment traps.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Retrofits can be used within ponds at outlet control structures, particularly in cases where water quality calculations (included in the hydrologic report) indicated that the targeted sediment removal efficiency of 80% is not achieved. Check dams can also be used to mitigate such a deficiency.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |
| • Stabilized Construction Entrance: | | | | | | |
| - <i>Stabilized construction entrances must be clearly shown on the plan view in any area where construction traffic will be leaving the site and potentially tracking mud onto regularly travelled roadways.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |
| • Inlet Protection | | | | | | |
| - <i>Inlet protection must be shown at all inlets (existing and proposed). Straw bales may not be used.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Steel posts and buried wire-reinforced fabric shall be used for filter fabric inlet protection.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - <i>Inlet protection details shall be provided for pre-paving and post-paving of roadways.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <i>Note: Inlets should not have more than one (1) acre draining to them.</i> | | | | | | |
| Comments: | | | | | | |

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|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Non-Numeric Effluent Limits Controls (section 3.2.10 of the NPDES CGP) | | | | | | |
| - Control stormwater volume and velocity within the site during construction to minimize erosion within the site. | <input type="checkbox"/> |
| - Control stormwater rates and volume at outlets during construction to minimize erosion to downstream channels and streambanks. | <input type="checkbox"/> |
| - Implement appropriate erosion prevention and sediment control BMPs for steep slopes (slopes of 3:1 or greater) and stabilize promptly if areas will not be actively worked for 7 days. | <input type="checkbox"/> |
| - Implement soil stabilization measures for portions of the site where earth disturbing activities have ceased and will not resume for a period exceeding 14 days. | <input type="checkbox"/> |
| - Provide dewatering plan as necessary to prevent uncontrolled discharges. | <input type="checkbox"/> |
| - Provide proper treatment of discharges associated with equipment and vehicle washing, wheel wash water and other wash waters. | <input type="checkbox"/> |
| - Minimize exposure of building materials, wastes, fertilizers, pesticides, detergents, sanitary waste to precipitation and stormwater. | <input type="checkbox"/> |
| - Show concrete washout area location and associated detail with installation and maintenance notes. | <input type="checkbox"/> |
| Comments: | | | | | | |

| Site Development Plan Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Show north arrow and applicable graphic scale. | <input type="checkbox"/> |
| • Show improvements with heavier line weights. | <input type="checkbox"/> |
| • Show proposed use of the site with gross and net square footage of floor space. | | | <input type="checkbox"/> |
| • Indicate proposed first floor elevation and height of structures. | | | <input type="checkbox"/> |
| • Provide building code information as applicable. | | | <input type="checkbox"/> |
| • Show location and size of parking lot stalls, aisles, islands, and sidewalks dimensioned. | | | <input type="checkbox"/> |
| • Show existing and proposed right-of-way. | <input type="checkbox"/> |

BERKELEY COUNTY ROADS & DRAINAGE
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| Site Development Plan Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| • Show existing and proposed roadway elements dimensions. | | | <input type="checkbox"/> |
| • Temporary cul-de-sacs (and the associated right-of-way) whenever the proposed roadway ends at phase lines. | | | <input type="checkbox"/> |
| • Show existing and proposed curb line, label all curb radii. | | | <input type="checkbox"/> |
| • Driveway widths and distances to adjacent driveways. | | | <input type="checkbox"/> |
| • Show wetlands including critical line buffer. Check for DHEC-OCRM verification. | <input type="checkbox"/> |
| • Locate main entrance(s) and accessible route from the accessible spaces. | | | <input type="checkbox"/> |
| • Locate areas of proposed signs, fences and walls. | | | <input type="checkbox"/> |
| • Locate refuse areas and screening detail. | | | <input type="checkbox"/> |
| • Location of outdoor storage or display areas. | | | <input type="checkbox"/> |
| • Location of lighting facilities and location of all utility connections. | | | <input type="checkbox"/> |
| • Proposed road and parking and traffic circulation. | | | <input type="checkbox"/> |
| • Parking analysis summary table to include number of ADA accessible spaces. | | | <input type="checkbox"/> |
| • Density analysis noting the total acreage of high ground and the total number of residential or commercial dwelling units. | <input type="checkbox"/> |
| • Show vision clearance triangles at street intersections as required by SCDOT/ARMS manual. | | | <input type="checkbox"/> |
| • Provide and label the required building setbacks. | <input type="checkbox"/> |
| • Provide the percentage of the lot occupied by buildings. | <input type="checkbox"/> |
| • Proposed new streets with names, including roadway widths, curb lines and right-of-way lines and widths. | | | <input type="checkbox"/> |
| • Other numerical information to facilitate the review setbacks and other zoning requirements. | | | <input type="checkbox"/> |
| • Number of lots, if any and area of each. | <input type="checkbox"/> |

**BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST**

| Site Development Plan Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|--|------------|----|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •Existing stormwater and sewer lines, water lines, fire hydrants utility transmissions lines culverts, bridges railroads, etc. as deemed appropriate for proper development of site, including ponds shown as owned and maintain by the HOA. | | | <input type="checkbox"/> |
| •Provide location, width of sidewalks and trails in conformance with ADA requirements. | | | <input type="checkbox"/> |
| •Provide location, widths and purposes of proposed easements and utility rights-of-way. | | | <input type="checkbox"/> |
| •Any disturbances in existing accessible route(s) and indicate plans to provide accessible routes during construction. | | | <input type="checkbox"/> |
| •Indicate the accessible ingress and egress route from the public sidewalk. | | | <input type="checkbox"/> |
| •Indicate accessible curb ramps. | | | <input type="checkbox"/> |
| •Indicate accessible parking in relation to the accessible route. | | | <input type="checkbox"/> |
| •Note height of ceiling in covered parking areas and passenger loading zones. | | | <input type="checkbox"/> |
| Comments: | | | | | | | | |

| Geometrics and Dimensional Control Plan Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| •Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| •Roadway geometrics including stationing, lengths of all straight lines, radii and lengths of curves and tangent bearings or each street. | <input type="checkbox"/> |
| •Locate roads and driveways with widths and curb radiuses indicated. | <input type="checkbox"/> |
| •Parking details indicated on the plans to include; parking space size (width and length), and aisle width between parking stall lines. | <input type="checkbox"/> |
| •Plans must show driveway separation distances and the distance to the nearest intersections. | <input type="checkbox"/> |
| Comments: | | | | | | |

BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST

| Grading & Drainage Plan Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Show existing and proposed topography, environmental controls, drainage, and other proposed improvements. | <input type="checkbox"/> |
| • Limits of clearing and grading. | <input type="checkbox"/> |
| • Area (square feet) to be disturbed. | <input type="checkbox"/> |
| • Description of the nature and purpose of land disturbance. | <input type="checkbox"/> |
| • Proposed buildings and existing buildings to remain. | <input type="checkbox"/> |
| • Amount of pre- and post-developed impervious area. | | | <input type="checkbox"/> |
| • Proposed drainage pattern and flow volumes. | <input type="checkbox"/> |
| • Provisions for drainage behind the retaining wall area are to be shown on the grading plan. | | | <input type="checkbox"/> |
| • Show driveway grades and transition grade from street to driveway. | | | <input type="checkbox"/> |
| • Show finished floor elevations. | | | <input type="checkbox"/> |
| • Watershed limits. | <input type="checkbox"/> |
| • Existing and proposed contours at 1' intervals. | | | <input type="checkbox"/> |
| • Proposed spot elevations. | | | <input type="checkbox"/> |
| • Flow arrows (perpendicular to contours). | | | <input type="checkbox"/> |
| • Drainage areas designations. | <input type="checkbox"/> |
| • Existing storm drain pipes and culverts. | <input type="checkbox"/> |
| • Proposed storm drain pipes and culverts. | <input type="checkbox"/> |
| • Storm drain manholes, inlets, and headwalls. | | | <input type="checkbox"/> |
| • Existing and proposed open channels, swales and ditches. | <input type="checkbox"/> |
| • Proposed structural stormwater BMPs per the SDSM and SCDHEC BMP Handbook. | | | <input type="checkbox"/> |
| Comments: | | | | | | | | |

BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST

| Traffic Control Plan Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Show permanent signing, pavement markings, delineation and other permanent traffic control devices on this sheet. A separate detail sheet could be used for clarity and ease reference. | <input type="checkbox"/> |
| • Adhere to guidance on permanent signing and marking that is provided in the MUTCD. | <input type="checkbox"/> |
| • Indicate locations of "Stop" signs, "Stop" bars, and "Handicapped" signs, other traffic control devices (i.e. – arrows, warning signs, etc.) on a Traffic Control Plan Sheet. | <input type="checkbox"/> |
| • A Temporary Traffic Control Plan may be required for all projects where existing automobile and/or pedestrian traffic patterns are altered or changed, or where lane and/or shoulder widths are reduced or eliminated. | <input type="checkbox"/> |
| • The proposed Temporary Traffic Control Plan should graphically portray all temporary traffic controls required to assure safe travel through the project construction zone. Such temporary traffic controls include provisions for pedestrians (including those with disabilities), bicyclists, and motor vehicles. | <input type="checkbox"/> |
| • The proposed Temporary Traffic Control Plans may range from simple line diagrams for low-volume roads to complex plan sheets detailing every stage of the project work on high-volume roads. Guidance on Temporary Traffic Control Plans is provided in the MUTCD. | <input type="checkbox"/> |
| Comments: | | | | | | |

| Roadway Plan and Profile Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| Plan | | | | | | |
| • Centerline, stationing (50' intervals), alignment data (bearings, distances, curve data, etc.), intersection /curb return radii, easements, property lines, sidewalks, drainage inlets, manholes, applicable notes, benchmarks, north arrow and scale. | <input type="checkbox"/> |
| • Inlets, Manholes and Junction Boxes: - Provide structure identification including stationing of structure, - Type of structure. - Top of grate or cover elevation. - In and out invert elevations for each pipe. | <input type="checkbox"/> |

**BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST**

| Roadway Plan and Profile Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| <ul style="list-style-type: none"> •Pipes: - Size, type and material (RCP in roadways and along roadways). - (O-Ring, Class III RCP for pipes permanently holding water). - Length in feet. - Slope in percent. - Check cover and clearance with existing and proposed utility crossings. - Match pipe crowns where possible. - Pipe roadway crossings should be at 90° (perpendicular) where possible. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Profile | | | | | | |
| <ul style="list-style-type: none"> •Profile View: Centerline, stationing (50' intervals), original ground and proposed grade along centerline, utility crossings and structures, label vertical curve elements (VPI's, VPC's VPT's), and tangent grades. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> •Vertical curves should be a minimum of 50' in length and should be checked for sight distance. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> •Low Points: - Check if local residential roadway centerline is above 10-year storm elevations. - Check if collector and higher level roadway centerline is above 25-year storm elevation. - Check backwater elevations at inlets. - Check for overland relief for large storms. - Make sure that all low points have adequate drainage. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> •Show all utilities crossings at roadway centerline. Check cover, clearance and conflicts. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

| Typical Road Sections Item/Description | Conceptual | | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| <ul style="list-style-type: none"> •Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> •The Typical Section Sheet shows the shape of the finished surface, curbs, shoulders, ditches and sidewalks and represents the appearance of the completed project. It must be specific enough to describe the proposed work, its location and the material needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <ul style="list-style-type: none"> •On projects requiring more than one typical section, the limiting stations for each section should show. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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REVIEW CHECKLIST**

| Typical Road Sections Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| • Identify all functional elements of the typical section to a relative scale. Show widths in feet and show thickness or depth in inches. Show the thickness of each element in the pavement structure in inches. Trees and lights included. | <input type="checkbox"/> |
| • Use notes or tables on the typical section to describe varying pavement structure thicknesses. | <input type="checkbox"/> |
| • For staged construction projects, identify the ultimate typical section. Clearly distinguish the work to be performed under the contract and the future stage construction work. | | | <input type="checkbox"/> |
| • Use supplemental typical sections to detail curbs, sidewalks, median treatments, slope protection, channel changes, etc. | | | <input type="checkbox"/> |
| • On abbreviated plans, supplemental typical sections may be placed on the plan sheet at the locations where the work is proposed. | | | <input type="checkbox"/> |
| Comments: | | | | | | | | |

| Storm Drainage Plan and Profile Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Storm drainage plan and profiles typically required for all stormwater systems located within public right-of-way. | <input type="checkbox"/> |
| • For culvert installations, include the following for each culvert location: Size, alignment, length, materials, including class, gauge, and any special coatings, joint gasket treatments, if any, end treatment, cover depth, camber, if any. | <input type="checkbox"/> |
| • For the location and design of simple riprap outlet protection, include the following for each: dimensions and extent of riprap, gradation, bedding and filter material, grading or slope details, if needed. | <input type="checkbox"/> |
| • Show location and details of drainage structures which are typically located based on maintenance requirements and at changes to the storm drain alignment or profile. | <input type="checkbox"/> |
| • Storm drain profiles should be designed as close to the surface as possible, taking minimum cover depths and utility conflicts into consideration. | <input type="checkbox"/> |
| • Show proposed pipe invert elevations and top of grate elevations for all drainage structures. | <input type="checkbox"/> |

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| Storm Drainage Plan and Profile Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Show computed HGL for design storm event for pipes. | <input type="checkbox"/> |
| Comments: | | | | | | |

| Details Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number | <input type="checkbox"/> |
| • Standard plans/details shall be in accordance with the SCDOT Standard Drawings, and other regulatory agencies as applicable. | <input type="checkbox"/> |
| • Details include curb, curb and gutter, sidewalk, grade crossings, turnouts, retaining walls, dikes and ponds, stormwater pipes and structures, staged construction plans, permanent striping and signing plans, road approaches and driveways and other work. | <input type="checkbox"/> |
| • Special Details are project specific details necessary to properly describe the work. | <input type="checkbox"/> |
| • Construction details for improvements within the public right-of-way. | <input type="checkbox"/> |
| • Details required for all erosion prevention and sediment control measures specified on the plan in accordance with the most recent SCDHEC BMP details and provide installation and maintenance notes. | <input type="checkbox"/> |
| Comments: | | | | | | |

| Sewer Plans and Details Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Wastewater installation details shall be in accordance with the appropriate agency regulations. | <input type="checkbox"/> |
| • Sewer manholes to be located out of roadway pavement. | <input type="checkbox"/> |
| • Specifications shall be in accordance with the Berkeley County Water and Sanitation minimum standards or other appropriate agency standards for the design and construction of water and sanitary systems. | <input type="checkbox"/> |
| Comments: | | | | | | |

**BERKELEY COUNTY ROADS & DRAINAGE
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| Water Plans and Details Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Water installation shall be in accordance with the appropriate agency regulations. • Valves and valve boxes located out of roadway pavement. • Fire Hydrants located at the right-of-way line. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Specifications shall be in accordance with the Berkeley County Water and Sanitation minimum standards or other appropriate agency standards for the design and construction of water and sanitary systems. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

| Landscaping Plans Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|--|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Proposed street light locations. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Proposed site light locations. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Provide a landscape plan for ROW plantings. Include plant schedule. • Proposed landscaping within ROW's and easements shall be coordinated with Berkeley County Engineering, Berkeley County Roads & Bridges and Berkeley County Water and Sanitation prior to submitting plans. • Landscaping within public ROW's and easements shall submit an encroachment permit application along with the landscaping plans. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Provide watering schedule for ROW planting. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Construction details for improvements within the public right-of-way. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • Consistency with proposed grading and drainage plan along with proposed stormwater BMPs and access to BMPs. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

| Right-of-Way & Utility Plans Item/Description | Preliminary | | Final 1st | | Final 2nd | |
|---|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • On occasion, right-of-way plans or utility plans may be too complicated to incorporate on the Plan and Profile Sheets, and may be prepared as a separate plans set with only the pertinent information. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

BERKELEY COUNTY ROADS & DRAINAGE
REVIEW CHECKLIST

| Architectural Drawings Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| • Provide title block including project name, title sheet and number. | <input type="checkbox"/> |
| • Building(s) footprint with dimensions and connection details to other civil works. | <input type="checkbox"/> |
| • Building height calculations. | <input type="checkbox"/> |
| • Show finished floor elevations. | <input type="checkbox"/> |
| • Roof downspouts with details redirecting drainage into a drainage structure or permeable surface. | <input type="checkbox"/> |
| • Indicate accessible routes and parking in relation to the building and adjacent sidewalks. | <input type="checkbox"/> |
| Comments: | | | | | | |

7. Permits

| Item/Description | Preliminary | | Final 1 st | | Final 2 nd | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No |
| Requirements | | | | | | |
| • Encroachment permit(s) from the SCDOT or Berkeley County Roads & Bridges for any work within State or County rights-of-way. | <input type="checkbox"/> |
| • Permit(s) from agencies other than Berkeley County. This may include South Carolina DHEC/OCRM permits and/or U.S. Corps of Engineers permits where applicable. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| • DHEC/OCRM Construction Permit – Provide copy of NOI application for the DHEC/OCRM Permit for the discharge of stormwater from construction activity. | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | | | |

8. Traffic and Transportation

| Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| Requirements | | | | | | | | |
| • Verify if a traffic impact study for major developments and some intermediate developments. | <input type="checkbox"/> |
| • Traffic and Street Sign Standards shall comply with MUTCD and SCDOT standards. | | | <input type="checkbox"/> |
| • Provide details of all signs and sign post and details of installation. | | | <input type="checkbox"/> |

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| Item/Description | Conceptual | | Preliminary | | Final 1 st | | Final 2 nd | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| •All proposed Stop Sign locations should be indicated and installed 7' from bottom of sign - minimum 30" sign installed on a breakaway post. | <input type="checkbox"/> |
| •All proposed Stop Bar locations should be 24" wide, white thermoplastic paint. Provide details. | | | <input type="checkbox"/> |
| •Provide location and details of all existing and proposed traffic control devices: All pavement markings, centerlines, arrows; Traffic, parking, and street name signs; Traffic Signals. | <input type="checkbox"/> |
| •Include statement indicating all traffic control devices installed will meet latest edition MUTCD standards. | | | <input type="checkbox"/> |
| •Include details of general parking and handicap parking space separation lines [type of paint, width, colors. | | | <input type="checkbox"/> |
| •Include handicap sign locations and details. | <input type="checkbox"/> |
| •Include parking meter locations if applicable. | <input type="checkbox"/> |
| •Include statement on plans indicating that sight distance visibility at all exits and/or intersections will be maintained in accordance with SCDOT Access and Roadside Management Standards (ARMS) Manual. | | | <input type="checkbox"/> |
| •If required by traffic impact study, provide a separate Traffic Signal Plan designed to meet SCDOT standards. Refer to SCDOT ARMS Manual. | | | <input type="checkbox"/> |
| Comments: | | | | | | | | |