

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
Encroachment Permit**

Permit No : 233222

Permit Decision Date :
3/27/2020

Expiration Date : 3/27/2021

Type

Permit : DRAINAGE

Location:

<u>District</u>	<u>Work County</u>	<u>Type</u>	<u>Route</u>	<u>Aux</u>	<u>Begin MP</u>	<u>End MP</u>
6	Beaufort, SC	S-	159	None	0.546	0.331
6	Beaufort, SC	S-	253	None	0.083	0.050

Contact Information

Applicant: TheCityofBeaufort

Phone:

Contact: Matt St.Clair

Address: 1911 Boundary Street,

City: Beaufort

State: SC

Zip: 29902

Comments

Basin 2 of Mossy Oaks Neighborhood

Special Provisions:

0002 - ALL REPAVING IS TO CONFORM TO STANDARD DEPARTMENT SPECIFICATIONS. THE ROAD, AT DROP INLETS, SHALL BE MILLED TO MAKE A SMOOTH TRANSITION WHEN PAVED. PAVEMENT WITH CURB AND/OR SIDEWALK WILL BE PAVED FULL DEPTH FROM OUTER EDGE TO GUTTER EDGE.

0003 - WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO THE DEPARTMENT SPECIFICATIONS.

0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

0005 - APPLICANT SHALL PROVIDE TO THE DEPARTMENT THE OPPORTUNITY OF ATTENDING ANY PRE-CONSTRUCTION MEETING PRIOR TO THE BEGINNING OF WORK.

0123 - ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.

0202 - PAVEMENT DESIGN SHALL BE AS SHOWN ON ATTACHED DOCUMENTATION

0203 - ENTIRE WIDTH OF SIDEWALK TO BE REMOVED AND DISPOSED OF OFF RIGHT-OF-WAY. SIDEWALK TO BE REPLACED USING CLASS 2500 CONCRETE,

4" THICK, AND FINISHED TO SCDOT SPECIFICATIONS.

0207 - PIPE USED IN THIS INSTALLATION SHALL BE IN ACCORDANCE WITH SCDOT SPECIFICATION SC-M-714 AND COMPLY WITH CURRENT SCDOT POLICY.

0208 - REINFORCED CONCRETE PIPE SHALL BE USED FOR DRIVEWAY DRAINAGE.

0209 - DISTURBED VEGETATION SHALL BE RESEEDING ACCORDING TO THE SPECIFICATION FOR HIGHWAY CONSTRUCTION.

0210 - ALL SIDEWALKS TO INCLUDE AT DRIVEWAY RADIUS SHALL MEET (ADAAG) AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.

0301 - THE DITCHES AND/OR SHOULDERS DISTURBED DURING THE INSTALLATION SHALL BE RE-ESTABLISHED TO PROPER GRADE, ORIGINAL CROSS SECTION, STABILIZED, AND ALL DRAIN PIPES CLEARED.

0303 - THE ENTIRE DISTURBED AREA SHALL BE TOP-SOILED USING 3" OF SELECTED MATERIAL AND RE-GRASSED TO SCDOT SPECIFICATIONS.

0304 - PAVEMENT MARKINGS ALTERED DURING THIS INSTALLATION SHALL BE RESTORED BY THE APPLICANT.

0306 - TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY APPLICANT AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

0311 - SEDIMENT AND EROSION CONTROL DEVICES SHALL BE USED TO MINIMIZE THE MOVEMENT OF SEDIMENT.

0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

9999 - See Attached for Additional Special Provisions

Application for Encroachment Permit General Provisions

1. **DEFINITIONS:** The word "Permittee" used herein shall mean the name of the person, firm, or corporation to whom this permit is addressed, his, her, its, heirs, personal representatives, successors and assigns. The word "DEPARTMENT" shall mean the South Carolina Department of Transportation.
2. **NOTICE PRIOR TO STARTING WORK:** Before starting the work contemplated herein within the limits of the highway right of way, the Department's Resident Maintenance Engineer in the county in which the proposed work is located shall be notified 24 hours in advance so that he may be present while the work is under way.
3. **PERMIT SUBJECT TO INSPECTION:** This permit shall be kept at the site of the work at all times while said work is under way and must be shown to any representative of the Department or law enforcement officer on demand.
4. **PROTECTION OF HIGHWAY TRAFFIC:** The applicant shall be responsible for the protection of the highway traffic at all times during the construction, maintenance, removing or moving of the encroachment permitted herein. Detours, barricades, warning signs and flagmen, as necessary, shall be provided by and at the expense of the Permittee and shall be in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD). The work shall be planned and carried out so that there will be the least possible inconvenience to the motoring public. The Permittee agrees to observe all rules and regulations of the Department while carrying on the work contemplated herein and take all other precautions that circumstances warrant.
5. **STANDARDS OF CONSTRUCTION:** All work shall conform to the Department's standards of construction and shall be performed in a workman-like manner. The applicant shall make adequate provisions for maintaining the proper drainage of the highway as it may be affected by the encroachment permitted herein. All work shall be subject to the supervision and satisfaction of the Department.
6. **FUTURE MOVING OF PHYSICAL APPURTENANCES:** If, in the opinion of the State Highway Engineer, it should ever become necessary to move or remove the physical appurtenances, or any part thereof contemplated herein, on account of change in location of the highway, widening of the highway, or for any other sufficient reason, such moving shall be done on demand of the Department at the expense of the Permittee.
7. **RESTORATION OF HIGHWAY FACILITIES UPON MOVING OR REMOVING OF PHYSICAL APPURTENANCES:** If, and when, the physical appurtenances contemplated herein shall be moved or removed, either on the demand of the Department or at the option of the Permittee, the highway and facilities shall immediately be restored to their original condition at the expense of the Permittee.
8. **COSTS:** All work in connection with the construction, maintenance, moving or removing of the physical appurtenances contemplated herein shall be done by and at the expense of the Permittee.
9. **ADDITIONAL PERMISSIONS:**
 - (a) It is distinctly understood that this permit does not in any way grant or release any rights lawfully possessed by the abutting property owners. The Permittee shall secure any such rights, as necessary, from said abutting property owners.
 - (b) The Permittee shall be responsible for obtaining all other approvals or permits necessary for installation of the encroachment from other government entities.

(c) There shall be no excavation of soil nearer than two feet to any public utility line or appurtenant facility except with the consent of the owner thereof, or except upon special permission of this Department after an opportunity to be heard is given the owner of such line or appurtenant facility.

10. ADDITIONAL WORK PERFORMANCE:

(a) All crossings over the highway shall be constructed in accordance with "Specifications for Overhead Crossings of Light and Power Transmission Lines and Telegraph Lines over each other and over Highway Rights of Way in South Carolina," as approved by the Public Service Commission of South Carolina and effective as of date of this permit.

(b) All tunneling, boring, or jacking shall be done in such a way as not to disturb the highway surfacing.

(c) No pavement shall be cut unless specifically authorized herein.

(d) No excavation shall be nearer than three feet to the edge of pavement unless specifically authorized herein.

(e) Underground facilities will be located at minimum depths as defined in the "Utility Accommodations Manual" for the transmittant, generally as follows: 4 feet minimum for hazardous or dangerous transmittant, 3 feet minimum for other lines. The Department may approve shallower depths if adequate protection is provided. Such approval must be obtained in writing.

(f) Service and other small diameter pipes shall be jacked, driven, or otherwise forced underneath the pavements on any surfaced road without disturbing the pavement. The section under the highway pavement and within a distance of three (3) feet on either side shall be continuous without joints.

11. ACCESS:

(a) Permittee is responsible for maintaining reasonable access to private driveways during construction.

(b) It is expressly provided that, with respect to any limited access highway, the Permittee shall not have or gain access from the main traveled way of the highway, or the on or off ramps to such facility, except upon approval by the Department.

12. DRIVEWAYS:

(a) The existing crown of the highway shall be continued to the outside shoulder line of the highway.

(b) If the driveway or approach is concrete pavement, the pavement shall be constructed at least 6 inches thick and with a minimum of class 2500 concrete. There shall be a bituminous expansion joint, not less than 3/4 inches in thickness, placed between the highway paving and the paving of the approach for the full width of the approach.

13. BEAUTIFICATION:

(a) All trees, plants, flowers, etc. shall be placed in accordance with the provisions specifically stipulated herein.

(b) All trees, plants, flowers, etc. shall be maintained by, and at the expense of, the Permittee and the provisions of this permit shall become null and void, if and when said Permittee ceases to maintain aid trees, plants, flowers, etc.

14. AS-BUILT PLANS:

(a) The applicant shall provide the Department with survey-quality as-built plans in accordance with the requirements set forth in the Department's "A Policy for Accommodating Utilities on Highway Rights of Way".

9999 SPECIAL PROVISIONS – App 73744 and 73745

- 1.) The permittee and/or contractor is to be fully aware of these provisions. Also see attached drawings, details, and location maps of proposed work to be done under this permit.
- 2.) Prior to the start of any work shown on this permit the permittee, the contractor, and SCDOT will meet on site to discuss proposed work, these provisions, and all required safety requirements and signage pertaining to this permit. **Please note, no project close out letters will be provided unless project was inspected during construction.**
- 3.) This office is to be notified a minimum of 2 weeks prior to any work inside SCDOT rights-of-way being started by calling **(843) 524-7616, Beaufort Construction Office**. Contact this office immediately if an accident should occur during this construction.
- 4.) Approval of this permit is for drainage improvements within the Mossy Oaks subdivision to include modification of existing drainage structures, installation of new drainage structures, resurfacing of roadways where drainage modifications are made, pavement markings, sidewalk removal/replacement all more fully shown on plans dated 2/18/2020:
 - a) Application 200073745 – Discharge through private property from Gentry Woods pond to Battery Creek Road is not approved. No work on Battery Creek Rd between TMS R120-008-000-0564/0565 has been approved (Sheet 5C in plan set).
 - b) City of Beaufort to provide third party inspector with certifications in all pertinent disciplines for road construction
 - c) City to provide inspector contact information prior to start of work.
- 5.) Any work requiring a traffic disruption or lane closure will be performed between the hours of 9:00 AM and 3:00 PM with all traffic control removed from the roadway at that time. Any closure will require notifying all required media outlets, SCDOT, SCDOT Beaufort Construction Office, and all emergency agencies a minimum of one week prior to the implementation of the closure. SCDOT Standard Drawing 610-025-10 for lane closures on multi-lane primary routes.
- 6.) Any work requiring a shoulder closure is to be done using SCDOT Standard Drawing 610-205-00. All shoulder work is to be done during daylight hours between the hours of 9:00 AM and 3:00 PM.
- 7.) All traffic control will be the responsibility of the permittee and/or the contractor doing the work.

- 8.) The permittee and/or contractor will maintain positive drainage at all times during construction, until final inspection and approval is obtained.
- 9.) All construction signage is to be placed and maintained during the construction of this project until SCDOT final approval of work is given for all work shown on this permit. All signage is the responsibility of the permittee.
- 10.) Traffic control, lights, signs, and flagmen will be furnished by the permittee and/or contractor and will conform to "Manual on Uniform Traffic Control Devices", latest edition. All devices and signs will be maintained during all phases of construction. Signs not in use will be removed or coved as required.
- 11.) **The South Carolina Department of Transportation reserves the right to impose additional conditions, provisions, and/or requirements on this permit to respond to any unforeseen, specific problems that might arise during the life of this permit, and to take any enforcement action necessary to ensure compliance with SCDOT specifications, standards, or policies.**
- 12.) No excavated material is to be placed or let accumulate on roadway surface during the construction of this project. All material is to be removed from roadway as soon as possible.
- 13.) This permit has been issued with an expiration date of one year from the approval and all work shown or detailed on this permit must be completely finished and approved by that date.

INSPECTION PROVISIONS

- 14.) This project requires an onsite inspector certified in all required disciplines necessary to insure all construction meets SCDOT specifications and standards at all times work is to be performed inside SCDOT rights-of-way. Disciplines will include but not be limited to concrete, asphalt paving, earthwork and grading, and drainage. All material sampling shall follow the SCDOT Construction Manual latest edition.
- 15.) This project requires a person of authority on site at all times with the ability to direct all construction operations when SCDOT representatives address any issues pertaining to requirements associated with this permit or any SCDOT specifications.
- 16.) The permittee is responsible to have an independent testing firm test all material used in the construction of these facilities, and all construction as per current SCDOT standards and specifications require, or as directed by the SCDOT representative on site.

- 17.) **Information regarding inspection/inspector and testing firm shall be provided to SCDOT personnel prior to any construction beginning with SCDOT right of way.**
- 18.) SCDOT will be notified of all times work is being performed on this installation so that if needed, an inspector will be available to be on site.
- a. Prior to the start of any work inside SCDOT rights-of-way, the following items must be done:
- i. All utility lines must be located and visibly marked on the ground; marking must be maintained for the duration of construction.
 - ii. Existing rights-of-way must be defined and marked along with any sight areas or special conditions in work zone area.
 - iii. All traffic control must be placed prior to the planned start of construction.
 - iv. All required materials, equipment, and traffic control devices will be on site and inspected prior to starting operation by SCDOT representative.

PAVEMENT PROVISIONS

- 19.) Any pavement to be used in the construction shown on this permit is to be placed as specified and in accordance with the South Carolina Department of Transportation standard specifications for highway construction (latest edition), whichever is greater. The pavement structure listed or shown will be used in all areas where asphalt is to be placed inside SCDOT right-of-way unless indicated differently on the permit.
- 20.) Any existing roadway pavement damaged or removed in connection with this work will be replaced, using the same thickness and type of material destroyed, or according to specifications called for in the South Carolina Department of Transportation construction manual (latest edition), whichever is greater. **Damaged pavement to be milled/resurfaced for entire lane width for 10' on both sides of damage.**
- 21.) Where pavement is cut and replaced, the contractor shall cut the edges to a straight and even line before removing the pavement. No ragged edges will be allowed or accepted. All patches and repairs will have squared corners. Prior to placing new asphalt all existing edges are to be tacked as per current SCDOT specifications. In some cases an asphalt surface overlay may be required to smooth riding surface of roadway at patch, see permit for details.
- 22.) If the roadway pavement is cut and base material other than asphalt is replaced, the entire area is to be primed with asphalt prime coat, acceptable to

the South Carolina Department of Transportation specifications, prior to the placement of asphalt surface course. All new construction having rock type base is to be primed as required.

STORM DRAIN PROVISIONS

- 23.) All existing storm drainage pipes disturbed during construction are to be inspected by a SCDOT representative for any signs of cracking or breakage prior to being re-laid. After the relaying of the drainage pipe it will then again be inspected for grade, alignment, and joint sealing prior to be backfilled and compaction. If a pipe is determined to have been damaged in construction to a condition where it cannot be reused, it will then be replaced with an equivalent or better grade pipe as required meeting all current SCDOT specifications. If the contractor finds an existing pipe is damaged prior to any construction in that area, he is to notify the SCDOT inspector prior to any construction.
- 24.) Upon placement or replacement of any storm drainage pipe or structure indicated on this permit, and prior to beginning the backfilling operation, this office is to be notified and the pipe and/or structure inspected for grade, alignment, and the sealing of all joints, or construction and placement. When approval of the pipe and/or structure is given the backfilling will be allowed. Any pipe placed and covered without being inspected may result in the pipe having to be uncovered and inspected at the cost of the permittee.**
- 25.) Any existing storm drainage pipe removed or damaged during construction of this project will be replaced with the same size and type pipe as was present. Any change in pipe size or type will require approval from SCDOT prior to the change being made.
- 26.) All cross line pipes and/or sideline pipes disturbed or damaged during construction will be replaced immediately. New pipe will be placed on proper grade, sealed properly, and cleaned to provide positive drainage. Pipes are to remain uncovered until a South Carolina Department of Transportation inspector, inspect the pipe, the condition, and the placement in the trench. Then at that time the pipe is to be covered and compacted as required. Reinforced concrete pipe used within state rights-of-way shall be stamped for conformance with South Carolina Department of Transportation specifications, and be free of any cracks, chips, or breaks.

EXCAVATION PROVISIONS

- 27.) Any required excavation or mucking in connection with this work, will be backfilled in six inch layers, and thoroughly compacted in a manner satisfactory to the South Carolina Department of Transportation specifications. Density tests may be required with the results to be furnished to the

departments utility inspector on a weekly basis during construction, see permit for details.

- 28.) Compaction requirements in these provisions apply to crosscuts and longitudinal trench cuts from shoulder break to shoulder break. If compaction tests are required the maximum distance between tests shall be 500 feet. In some cases additional tests may be required, see permit for details.
- 29.) If unsuitable material is excavated, it will not be put back in the excavation, and will be removed from the right-of-way as soon as possible. The material will be replaced with suitable approved backfill, and be in compliance with the South Carolina Department of Transportation specifications for backfill.
- 30.) There shall be no excavation of soil nearer than two feet from any public utility pole or appurtenant facility without the written consent of the owner thereof. Special permission of the South Carolina Department of Transportation after an opportunity to be heard is given the owner of such pole or appurtenant facility may be given.
- 31.) If the side of the trench, pit, or any excavation is less than 3'-0" from the existing edge of pavement, the excavated area will be backfilled entirely with flowable fill to an elevation 6 inches from the existing ground elevation. Then brought to grade with suitable topsoil, compacted, graded, and grassed as required to eliminate any erosion.
- 32.) Existing ditch slopes, if excavated, shall be backfilled in six inch layers and well tamped with a mechanical tamp to 95% density (standard proctor). These lifts will be benched into the existing embankment as required. The new slopes will then be graded to match existing typical roadway cross section.
- 33.) No excavated material or spoil is to be placed on the pavement without the permission of the South Carolina Department of Transportation, and if permission is granted, this material must be removed daily, as soon as possible. The roadway is to be cleaned of all material in a manner as to protect the existing pavement. Any pavement destroyed, or marked by this operation will be removed and replaced as required.
- 34.) When shoulders and ditch slopes are reshaped and graded to a typical section, the section will match existing road section. Where the existing section is less than state standards (6' wide shoulder @ 12:1, front slope of ditch @ 4:1, ditch bottom as required to accommodate existing runoff, and back slope of ditch min. 3:1 or to right-of-way line) the section will be upgraded to the standard. In either case positive drainage must be established and approved by SCDOT.

- 35.) Contractor will maintain positive drainage at all times during construction and until final inspection and approval from South Carolina Department of Transportation is obtained.
- 36.) No excavation located between the edge of roadway pavement and the center of sideline ditch or 15'0" where no ditch is present is to be left open overnight. The excavation is to be either temporarily backfilled or a steel plate is to be secured over hole. In either case reflective traffic cones are to be placed around the area of the excavation until the excavation has been permanently backfilled as required and graded.

CONSTRUCTION CLEANUP PROVISIONS

- 37.) All areas in SCDOT right-of-way disturbed during construction are to be restored to original condition as soon as possible and maintained during entire length of project, see "SCDOT POLICY FOR SEEDING AND EROSION CONTROL MEASURES INSIDE ROADWAY RIGHTS-OF-WAY".
- 38.) All disturbed areas inside SCDOT rights-of-way will be seeded with a mixture of grass seed as specified in the South Carolina Department of Transportation standard specifications for highway construction, section 109b2, or latest edition. No rye grass will be allowed inside SCDOT rights-of-way. A satisfactory stand of grass will be required, prior to any acceptance or final approval is granted on this permit.
- 39.) All rocks, pebbles, boards, other debris along with any spoil material will be kept clear of roadway at all times as the work progresses.

TRAFFIC SIGNAL PROVISIONS

ALL WORK TO BE PERFORMED UNDER THIS PERMIT RELATING TO THE TRAFFIC SIGNAL INSTALLATION AND PROGRAMMING WILL BE COORDINATED WITH SCDOT DISTRICT 6 SIGNAL SHOP (843) 740-1668.

- a.) Approval of this permit constitutes the revision to the existing traffic signal located at the intersection of SC-61 (Ashley River Road) and S-26 (Wappoo Road) in Charleston County, and more fully shown on the approved construction plans referenced at the beginning of these provisions.
- b.) **All cost associated with the modification of the traffic signal will be paid by the permittee.**
 - **All phasing or timing changes must be approved by the District Traffic Engineer before implementation. Shown in the approved plans.**
 - **Permittee shall have a signal technician on call 24 hours a day 7 days a week to respond to all maintenance and trouble calls.**

▪ **The repair time for trouble calls shall be as follows:**

- **Weekdays or Saturday Maximum Time**
 - **6 AM to 6 PM 1 Hour**
 - **6 PM to 6 AM 4 hours**
- **Sundays or Holidays**
 - **Day or Night 4 hours**

- c.) The materials used to construct these facilities must conform to the current SCDOT traffic signal equipment specifications. The contractor and/or engineer are responsible for obtaining the specifications from the SCDOT traffic engineering office in Columbia, South Carolina.
- d.) A professional engineer registered in the state of South Carolina must design all signal pole foundations supporting steel poles and mast arms poles. Mast arms and poles when used must meet current AASHTO standards and the most current SCDOT standard specifications.
- e.) A pre-construction conference will be scheduled at least two (2) weeks prior to the proposed construction start. Attending this meeting will be SCDOT District Traffic Signal Engineer, District Traffic Signal Supervisor, SCDOT county utility inspector, the owner, engineer and contractor.
- f.) The contractor will provide SCDOT a work schedule; the name of person of responsibility on job site, all required emergency telephone numbers, and the date of starting work.
- g.) The traffic signal contractor must be currently approved by the SCDOT. The contractor shall have an IMSA level 2 certified employee managing this project. All subcontractors will be prior approved by SCDOT before starting any work on project site.
- h.) Prior to the start of any construction, the contractor will arrange an onsite meeting with SCDOT personnel from the District 6 Signal Shop for a preconstruction meeting to discuss construction procedures, scheduling, materials, and traffic control. Contractors will also contact District 6 Traffic Office to insure plans being used in the construction are the latest and approved version of project. Contractor shall furnish submittals on all materials to be used in the construction of traffic signals shown on drawings attached before work begins.
- i.) Any materials used not meeting SCDOT specifications or standards will be removed and replaced with approved materials at the contractor's expense. Any material requiring SCDOT inspection that is placed without approval

will be exposed for inspection by the contractor at his expense prior to being accepted by SCDOT.

j.) SCDOT will be notified of all times work is being performed on this installation so that if needed, an inspector will be available to be on site. Prior to the start of any work inside SCDOT right-of-way, the following items must be done:

- *All utility lines must be located and visibly marked on the ground; marking must be maintained for the duration of construction.*
- *Existing rights-of-way must be defined and marked along with any sight areas or special conditions in work zone area.*
- *All traffic control must be placed a minimum of one week prior to the planned start of construction.*
- ***SCDOT Approved Traffic Control and Signalization phasing and timing plan.***
- *Work is to be coordinated with the roadway improvement contractor, the engineer, and SCDOT officials managing the projects.*

k.) **The 9999 Special Provisions above pertaining to Pavement, Excavation, and Construction Cleanup also apply to all traffic signal work.**