



COASTAL RESOURCES DIVISION  
ONE CONSERVATION WAY • BRUNSWICK, GA 31520 • 912.264.7218  
COASTALGADNR.ORG

MARK WILLIAMS  
COMMISSIONER

DOUG HAYMANS  
DIRECTOR

JUL 09 2019  
Scott Brazell  
Camden County Public Works  
200 E. 4th St.  
Woodbine, GA 31569

**Re: Letter of Permission (LOP) and Revocable License (RL) for Deep Creek Bridge Repairs, Deep Creek, Camden County, Georgia. (GPS: 30.88914N/-81.55910W)**

Dear Mr. Brazell:

This Letter of Permission (LOP) is in response to your request dated May 29, 2019 for repairs to the surface and abutments of Deep Creek bridge at Union Carbide Road. This project involves removing a 10ft. x 22ft. area of the east and west bridge abutments in order to install a 4ft. x 1ft. concrete erosion barrier. The erosion barrier will span the width of the bridge. Type III rip rap will be placed on top of the existing degraded riprap 2ft. high and 10ft. wide adjacent to the erosion barriers and on the sides of the road. The repaving of the road surface shall conform to the current Camden County and D.O.T. standards and specifications. The project will begin no sooner than fifteen (15) day from the receipt of this letter and be completed no later than six (6) months after the date of this letter.

The Department authorizes the bridge repairs as depicted in the attached description and drawings. **No unauthorized equipment, vehicles, materials, or debris may be placed in, disposed of, or stored in jurisdictional areas.** All material removed must be disposed of at an appropriate upland disposal area. Any visible alterations in marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.

This authorization does not relieve you from obtaining any other required federal, state, or local permits. Tidal water bottoms and marshlands of coastal Georgia are public trust lands controlled by the State, except for such lands where a validated Crown Grant or State Grant exists. If you have any questions you may contact Paul Tobler at 912-262-3134.

Sincerely,

Jill Andrews  
Chief, Coastal Management Section

Enclosures: Description, Plans, and Location Map

File: LOP20190094

STATE OF GEORGIA

REVOCABLE LICENSE REQUEST FOR THE USE OF TIDAL WATERBOTTOMS

APPLICANTS NAME(S): Camden County Board of Commissioners

MAILING ADDRESS: 200 E. 4th Street, Woodbine, GA 31569  
(Street) (City) (State) (Zip)

PROJECT ADDRESS/LOCATION: -81.559, 30.889 Union Carbide Rd at Deep Creek

COUNTY: Camden WATERWAY: Deep Creek DATE: June 21, 2019

LOT, BLOCK & SUBDIVISION NAME FROM DEED: N/A County Right of Way

Georgia Department of Natural Resources  
Coastal Resources Division  
One Conservation Way  
Brunswick, Georgia 31520-8687

I am requesting that I be granted a revocable license from the State of Georgia to encroach on the beds of tidewaters, which are state owned property. Attached hereto and made a part of this request is a copy of the plans and description of the project that will be the subject of such a license. I certify that all information submitted is true and correct to the best of my knowledge and understand that willful misrepresentation or falsification is punishable by law.

I understand that if permission from the State is granted, it will be a revocable license and will not constitute a license coupled with an interest. I acknowledge that this revocable license does not resolve any actual or potential disputes regarding the ownership of, or rights in, or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests. I acknowledge that such a license would relate only to the property interests of the State and would not obviate the necessity of obtaining any other State license, permit or authorization required by State law. I recognize that I waive my right of expectation of privacy and I do not have the permission of the State of Georgia to proceed with such project until the Commissioner of DNR or his/her designee has signed a copy of this request.

Sincerely,

By: [Signature] CRS, E+S COORDINATOR  
(Applicant), title if applicable

By: \_\_\_\_\_  
(Applicant), title if applicable

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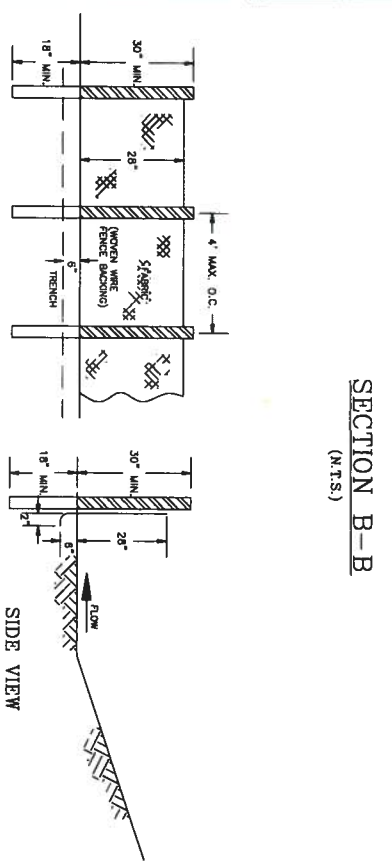
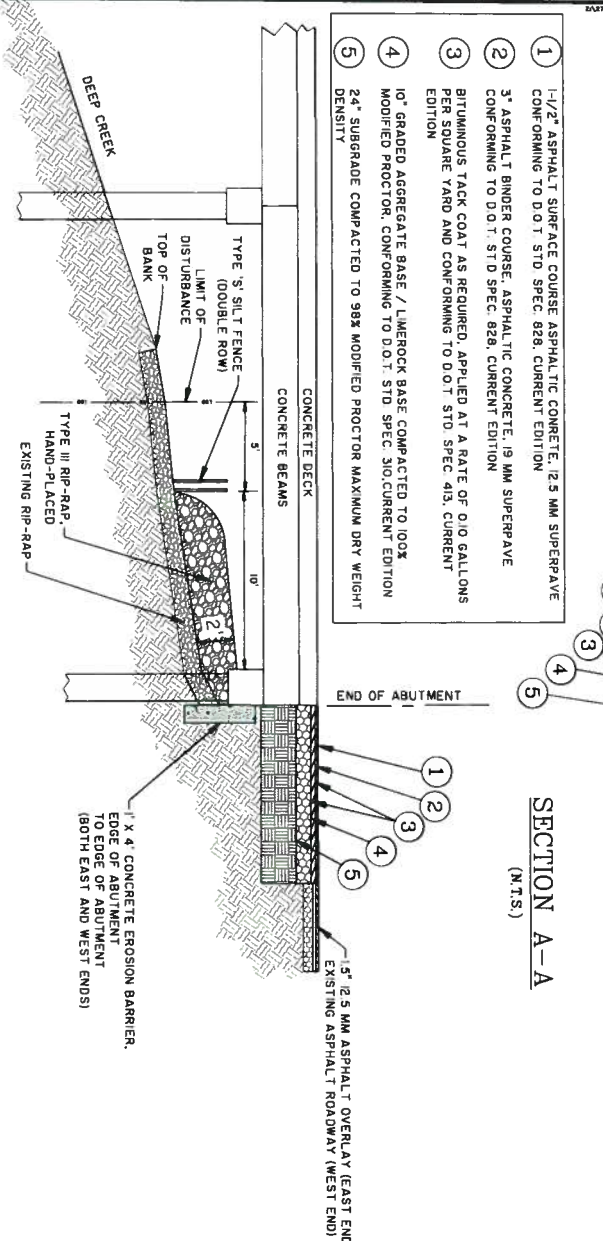
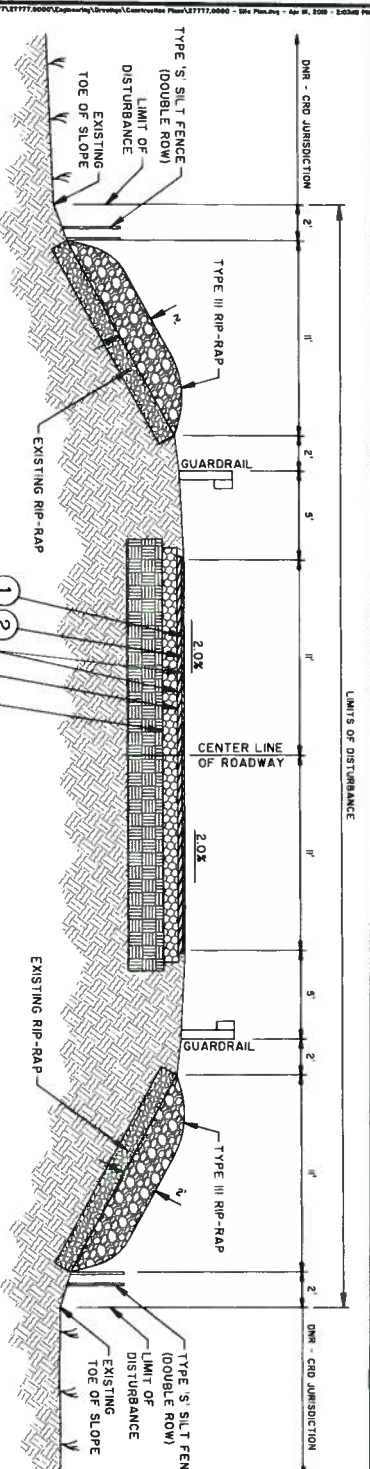
The State of Georgia hereby grants you a revocable license not coupled with an interest as provided in your request. This area may now or in the future be utilized by boats employing power drawn nets under the provisions for commercial or sport bait shrimping. In its occupancy and use of the premises, licensee shall not discriminate against any person on the basis of race, gender, color, national origin, religion, age, or disability. This covenant by licensee may be enforced by termination of this license, by injunction, and by any other remedy available at law to the Department. The project proposed for this license must be constructed and completed within the specified timeframe associated with the authorization and/or transmittal letter associated with this revocable license and must be maintained in serviceable condition. Otherwise, action will be initiated to revoke this license and all structures must be removed immediately at the licensee's expense.

STATE OF GEORGIA  
Office of the Governor

By: [Signature]  
For: Mark Williams, Commissioner-DNR

JUL 09 2019

Date: \_\_\_\_\_



TYPE C SILT FENCE (36\"/>

USE: 1. WHERE BANKS OR SLOPES ARE PARTICULARLY HIGH OR WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET 2. WHERE THE SLOPE STRENGTH IS SUSPECT FROM S.I.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

POST SIZE		TYPE OF POST	
MIN. LENGTH	TYPE	MIN. SIZE	TYPE
40	WOOD	2\"/>	

FENCE		POST SIZE	
MIN. LENGTH	TYPE	MIN. SIZE	TYPE
40	WOOD	2\"/>	

TEST	MIN. VALUE	TEST	MIN. VALUE
TENSILE STRENGTH (LBS. MIN.) (1)	400	ULTRAVIOLET STABILITY (2)	175
EXTENSION (INCHES) (2)	40	BURNING STRENGTH (P.P.M.) (3)	35
TEAR STRENGTH (LBS. MIN.) (4)	40	ULTRAVIOLET STABILITY (2)	175
TEAR STRENGTH (LBS. MIN.) (5)	40	BURNING STRENGTH (P.P.M.) (3)	35

NOTE: (1) MIN. VALUE OF THE SPECIFICATIONS. (2) PERCENT OF REQUIRED MIN. VALUE. TENSILE STRENGTH.

SILT FENCE - TYPE S

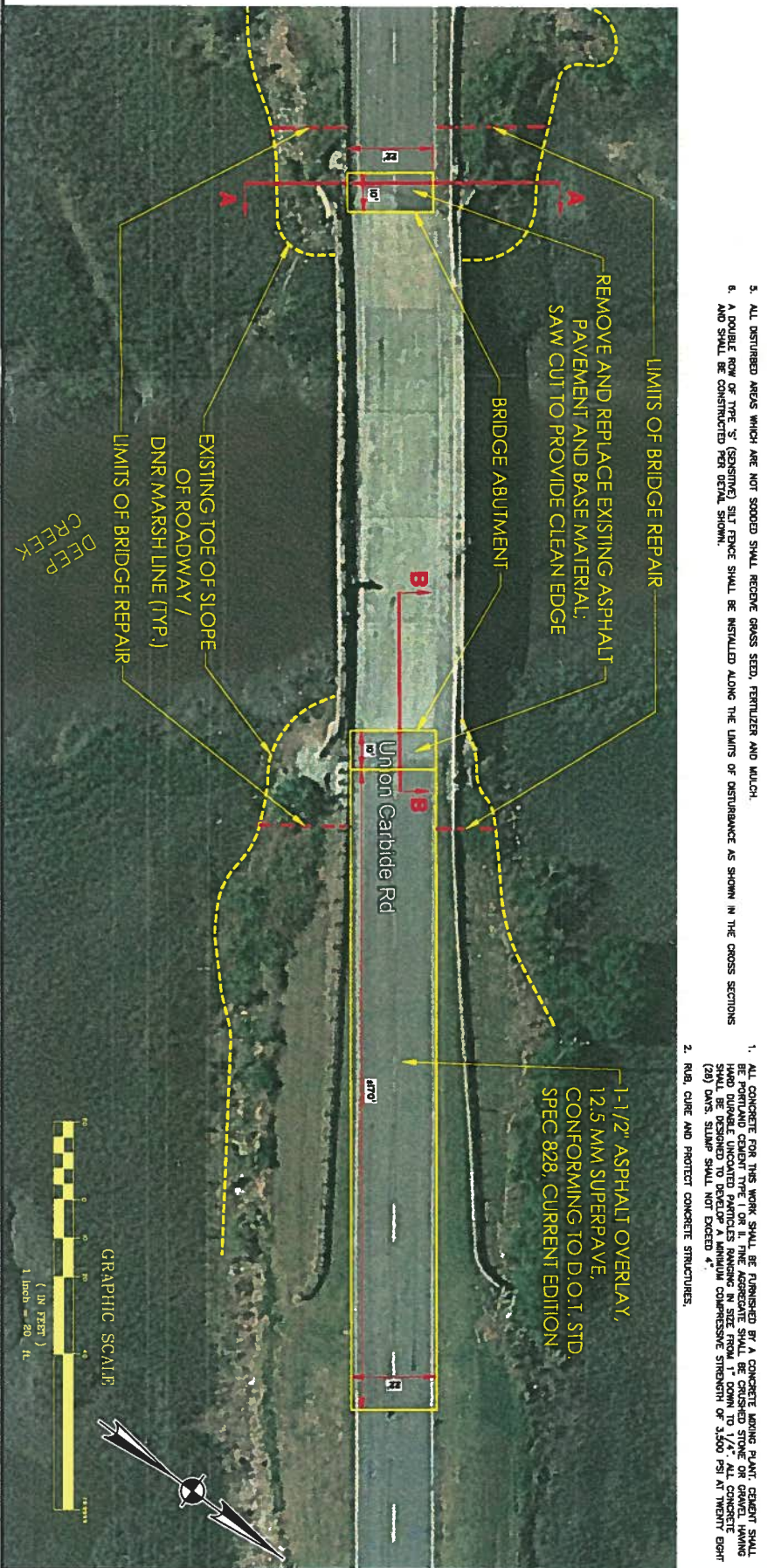


- GENERAL PROJECT NOTES**
1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE CURRENT CAMDEN COUNTY STANDARDS AND SPECIFICATIONS AND WITH ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES AND LAWS.
  2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE CONSTRUCTION.
  3. THE CONTRACTOR SHALL COORDINATE SITE CONSTRUCTION WITH ALL UTILITY CONSTRUCTION (POWER, TELEPHONE, GAS, CABLE, ETC.) AND OTHER WHICH MAY BE REFERRED TO THE PROJECT.
  4. THE OFFICE OF THE COUNTY ENGINEER AND PUBLIC WORKS DIRECTOR SHALL BE GIVEN AT LEAST ONE (1) WEEK'S NOTICE PRIOR TO BEGINNING ANY CONSTRUCTION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
  5. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE REGULATIONS CONCERNING PROJECT SAFETY AND ASSURES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
  6. ALL UNSURABLE MATERIALS FROM CLEANING, GRUBBING, AND OTHER ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
  7. DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
  8. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES. ALSO, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL INSPECTORS, INCLUDING THE COUNTY INSPECTORS PRIOR TO BEGINNING THE CONSTRUCTION.
  9. IN THE CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.
  10. THE PLANS WERE PREPARED IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING DESIGN. THEREFORE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS, CONTEMPORARY BASIS AT THE SITE.

- EARTHWORK**
1. SUBSURFACE HAS NOT BEEN INVESTIGATED. ALL UNSURABLE MATERIAL, IN PAVEMENT OR BUILDING AREAS SHALL BE REMOVED TO A DEPTH OF 3.0 FEET BELOW SUBGRADE. BACKFILL WITH SURVEIL MATERIAL.
  2. THE UPPER TWO FEET OF MATERIAL BELOW THE PAVEMENT BASE COURSE HEREON REFERRED TO AS STABILIZED SUBGRADE, SHALL BE COMPACTED TO DENSITIES OF AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY WEIGHT DENSITY (ASTM D1557) AFTER COMPLETING CLEANING/STRIPPING OPERATIONS. THE NATURAL SOILS BENEATH THE PAVEMENT AREAS SHALL BE COMPACTED UNTIL DENSITIES OF AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY WEIGHT DENSITY WITHIN THE UPPER TWO FEET. NATURAL SOILS SHALL EXHIBIT MOISTURE CONTENTS WITHIN 2% OF THE MODIFIED PROCTOR MAXIMUM DRY WEIGHT DENSITY MOISTURE CONTENT.
  3. WHERE EXISTING SOILS TO BE USED IN THE STABILIZED SUBGRADE HAVE THE REQUIRED BEARING VALUE, NO ADDITIONAL STABILIZING MATERIAL NEED BE APPLIED. WHERE THE BEARING VALUE IS UNACCEPTABLE, LIME ROCK OR OTHER MATERIALS APPROVED BY THE ENGINEER SHALL BE USED TO STABILIZE THE SUBGRADE. INCLUDING COMPACTION, SHALL CONFORM TO THE D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION.
  4. STRUCTURAL FILL REQUIRED FOR BUILDING PILES AND PAVEMENT AREAS SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND SHALL BE COMPACTED TO DENSITIES EQUIVALENT TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY WEIGHT DENSITY (ASTM D1557), AND WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. STRUCTURAL FILL IS DEFINED AS NON-PLASTIC, INORGANIC (CONTAINING LESS THAN 4.0% ORGANICS), GRANULAR SOIL CONTAINING LESS THAN 10% NATURAL PASSING THE 200 MESH SIEVE (I.E. RELATIVELY CLEAN SAND). COMPACTION SHALL BE TESTED IN EACH LIFT AND RESULTS SUBMITTED TO THE ENGINEER FOR REVIEW.
  5. THE CONTRACTOR MUST PROVIDE CERTIFIED TEST RESULTS OF THE DENSITIES OF COMPACTION OF THE SUBGRADE AND THE BASE FROM AN INDEPENDENT, QUALIFIED TEST LABORATORY. ALL BUILDING PILES AND PAVEMENT AREAS SHALL BE PROOF ROLLED PRIOR TO ACCEPTANCE.
  6. TESTS FOR THE STABILIZED SUBGRADE BEARING CAPACITY AND COMPACTION SHALL BE STAGED TO THE LEFT, RIGHT, AND CENTRELINE OF THE ROADWAY. A MINIMUM OF TWO TEST SETS SHALL BE PERFORMED FOR EACH AREA OF PAVEMENT REPLACEMENT.
  7. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- EROSION CONTROL**
1. EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO CLEANING AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  2. DISTURBED AREAS OR CONSTRUCTED DISTURBANCES WITH GRADIENT EXCEEDING 30% SHALL BE STABILIZED IMMEDIATELY.
  3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN PROPER CONDITION, SO THAT THEY WILL PERFORM THE FUNCTIONS FOR WHICH THEY WERE PROVIDED. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO CORRECT ANY DEFICIENCIES.
  4. ALL EXCAVATION SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND ROUTED THROUGH FLOW RIDGES OR SILTATION BARBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF SOIL EROSION AND WATER POLLUTION.
  5. ALL DISTURBED AREAS WHICH ARE NOT SOOED SHALL RECEIVE GRASS SEED, FERTILIZER AND MULCH.
  6. A DOUBLE ROW OF TYPE 'S' (SPENTITE) SILT FENCE SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE AS SHOWN IN THE CROSS SECTIONS AND SHALL BE CONSTRUCTED PER DETAIL SHOWN.

- CONSTRUCTION SITE SAFETY**
1. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE REGULATIONS CONCERNING PROJECT SAFETY AND ASSURES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
  2. WORKERS AND THE PUBLIC SHALL BE PROTECTED BY THE CONTRACTOR FROM ANY AND ALL HAZARDS CONNECTED WITH THE CONSTRUCTION WORK.
  3. OPEN TRENCHES, MATERIALS, OR EQUIPMENT WITHIN THE WORKING LIMITS ARE TO BE PROTECTED BY THE USE OF ADEQUATE BARRIERS.
  4. ALL WORK SHALL BE IN ACCORDANCE TO OSM REGULATIONS, TITLE 18, PARTS 1928.651 AND 1928.652.
  5. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY NOT BE ENTIRELY ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF UTILITIES AND NOTIFY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 PRIOR TO EXCAVATION.
  6. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. ANY DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE. THE CONTRACTOR IS RESPONSIBLE TO INCLUDE THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES EITHER IN, ON, OR NEAR THE CONSTRUCTION SITE.

- PAVING**
1. THE PAVEMENT SURFACE WEARING COURSE SHALL BE ASPHALTIC CONCRETE SUPERPAVE. ALL SUBGRADE AND BASE COURSE MATERIALS SHALL BE LIME ROCK OR GRADED AGGREGATE BASE (G.A.B.) AND SHALL CONFORM TO THE D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION, FOR BASE COURSE MATERIALS, INCLUDING CONSTRUCTION METHODS.
  2. ROADWAY BASE COURSE MATERIALS SHALL BE LIME ROCK OR GRADED AGGREGATE BASE (G.A.B.) AND SHALL CONFORM TO THE D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION, FOR BASE COURSE MATERIALS, INCLUDING CONSTRUCTION METHODS.
  3. ALL BASES SHALL BE PLACED IN ACCORDANCE WITH THE D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION. TACK COAT SHALL NOT BE REQUIRED ON FINISHED BASES EXCEPT ON AREAS WHICH HAVE BECOME EXCESSIVELY DRY AND CANNOT BE CLEARED OR IN AREAS WHERE THE SUBGRADE IS UNACCEPTABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT OF THE TACK COAT TO MEET THE D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION.
  4. TESTS FOR THE STABILIZED SUBGRADE BEARING CAPACITY AND COMPACTION SHALL BE STAGED TO THE LEFT, RIGHT, AND CENTRELINE OF THE ROADWAY. A MINIMUM OF TWO TEST SETS SHALL BE PERFORMED FOR EACH AREA OF PAVEMENT REPLACEMENT. IF TESTS INDICATE THROUGHNESS LESS THAN THOSE ALLOWED BY D.O.T. SPECIFICATIONS, THE CONTRACTOR MAY EITHER INCREASE THE THROUGHNESS OF THE SUBGRADE OR REWORK THE ENTIRE SUBGRADE WHICH DOES NOT MEET THE SPECIFIED THROUGHNESS.
  5. ALL PAVEMENT SECTION ELEMENTS SHALL BE TESTED AS REQUIRED BY CAMDEN COUNTY AT THE CONTRACTOR'S EXPENSE UNDER CURRENT CAMDEN COUNTY LIME SPECIFICATIONS.
- ADDITIONAL PROJECT NOTES**
1. THE OWNER SHALL PROVIDE LIMITS OF DISTURBANCE PRIOR TO CONSTRUCTION.
  2. NO MATERIAL OR EQUIPMENT SHALL BE ALLOWED OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS.
  3. CONSTRUCTION SHALL MAINTAIN TWO LINES OF TRAFFIC EXCEPT DURING CONSTRUCTION OPERATIONS. ONE LANE SHALL REMAIN OPEN AT ALL TIMES WITH PROPER SIGNAGE, FLAGGERS, AND OTHER TRAFFIC CONTROL MEASURES. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT GENERAL DEPARTMENT OF TRANSPORTATION STANDARDS.
  4. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL, 10 LF FROM THE END OF THE CONCRETE DECK ON BOTH SIDES OF THE BRIDGE (EAST AND WEST).
  5. CONTRACTOR SHALL OVERLAY EXISTING ASPHALT PAVEMENT FROM THE END OF THE ASPHALT REMOVAL, 17 TO 17' (EAST SIDE ONLY).
  6. EXISTING CONCRETE FLOWERS AND CAP TO REMAIN.
  7. CONTRACTOR SHALL MATCH EXISTING GRASSES AT TIE-INS TO EXISTING PAVEMENT.
  8. CONTRACTOR SHALL REPLACE PAVEMENT STRIPING TO MATCH EXISTING UNDER CURRENT CAMDEN COUNTY SPECIFICATIONS.
  9. ALL CONCRETE FOR THIS WORK SHALL BE FURNISHED BY A CONCRETE READY MIX PLANT. CEMENT SHALL BE PORTLAND CEMENT TYPE I OR II. THE AGGREGATE SHALL BE CRUSHED STONE OR CRUSHED LIMESTONE SHALL BE DESIGNED TO DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT TWENTY EIGHT (28) DAYS. SLUMP SHALL NOT EXCEED 4".
  10. CURB, GUT, AND PROTECT CONCRETE STRUCTURES.



<p><b>CAMDEN COUNTY BOARD OF COMMISSIONERS</b></p> <p>CAMDEN COUNTY, GEORGIA</p> <p><b>DEEP CREEK BRIDGE REPAIR</b></p> <p><b>ABUTMENT REPAIR AND OVERLAY</b></p>	<p><b>THOMAS HUTTON</b></p> <p>1503 Newcastle Street • Suite A Brunswick, GA 31520 • 912.466.0536</p> <p>www.thomasandhutton.com</p>	<p>NO. _____</p> <p>BY _____</p> <p>DATE _____</p>	<p>REVISIONS</p>