



SOUTH CAROLINA

DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

P.O. BOX 191

COLUMBIA, S.C. 29202

November 4, 1988

MEMORANDUM TO SQUAD LEADERS & CONSULTANTS

Subject: Welding Specifications

The specifications for welding on all future projects shall be the latest edition of the ANSI/AASHTO/AWS D1.5 Bridge Welding Code with additions and revisions as stated in the Special Provisions. The standard welding sheet, Standard No. 118, will no longer be included in the plans.

Notes concerning the welding specifications and Charpy V-Notch Toughness Test requirements as shown on the attached sheet should be added to the standard note sheet. Standard No. 189, Standard Notes, will be revised to include these notes.

A handwritten signature in cursive script, appearing to read "B. A. Meetze, Jr.", is written in dark ink.

B. A. Meetze, Jr.
Bridge Engineer-Design

cc:

Mr. Schroeder, FHWA
Mr. Rush
Mr. LaBoone
Mr. Kneece
Research & Materials Engineer
Mr. Cannon
Mr. Martin
Mr. Coogler
Mr. Phipps
Mr. Bryson
Mr. Burns
Mr. Scheerer
Mr. Rubeiz
Consultants

RLK/ddg

CHARPY V-NOTCH TOUGHNESS TEST

THE LONGITUDINAL CHARPY V-NOTCH TOUGHNESS TEST SHALL BE APPLIED TO ALL STRUCTURAL STEEL MEMBERS OR COMPONENTS SUBJECT TO TENSILE STRESS AS SPECIFIED BELOW.

THE TEST SHALL BE REQUIRED AS FOLLOWS:

- (a) SIMPLE SPAN ROLLED BEAM - THE BEAM ITSELF AS WELL AS BOTTOM COVER PLATE, IF APPLICABLE.
- (b) SIMPLE SPAN PLATE GIRDER - THE WEB, BOTTOM FLANGE PLATE AND SPLICE PLATES FOR WEB AND BOTTOM FLANGE EXCLUDING ANY FILLER PLATES.
- (c) CONTINUOUS SPAN ROLLED BEAM - THE BEAM ITSELF AS WELL AS ANY TOP OR BOTTOM COVER PLATE LOCATED IN A TENSION REGION AS INDICATED IN THE PLANS. ALSO, ALL SPLICE PLATES FOR WEB AND TOP AND BOTTOM FLANGE PLATES EXCLUDING ANY FILLER PLATES.
- (d) CONTINUOUS SPAN PLATE GIRDER - ALL WEB PLATES, THE TOP FLANGE PLATES AND THE BOTTOM FLANGE PLATES LOCATED IN A TENSION REGION AS INDICATED IN THE PLANS. ALSO, ALL SPLICE PLATES FOR WEB AND TOP AND BOTTOM FLANGE PLATES EXCLUDING ANY FILLER PLATES.

THE ABSORBED ENERGY REQUIREMENT AND TEST TEMPERATURE SHALL BE AS SPECIFIED IN THE LATEST AASHTO STANDARD SPECIFICATIONS OR SPECIAL PROVISIONS FOR ZONE 2. SAMPLING AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO T-243. THE (H) FREQUENCY OF HEAT TESTING SHALL BE USED.

SPECIFICATIONS

ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE (LATEST EDITION) WITH ADDITIONS AND REVISIONS AS STATED IN THE SPECIAL PROVISIONS.