

Addendum 2 Butterfly Branch

City of Spartanburg Butterfly Branch Pedestrian Bridge Project

SCOPE OF WORK

The scope of the work for the Butterfly Branch Pedestrian Bridge project consists of the following;

NOTE: awarded contractor to provide shop drawings for bridge & abutment design.

Contractor shall submit a set of submittal drawings and calc. Books both signed & sealed by a professional engineer licensed in the state of South Carolina. The submittal drawings shall be in accordance to AASHTO & the city of Spartanburg building codes and shall be submitted & approved by the city of Spartanburg building inspection department.

Contractor is responsible for column installation and stone veneer columns and abutments.

There shall be one (1) 10' width by 120' Length Pedestrian Bridge.

1. Full design and calculation package for the bridge shall be submitted **within two weeks after the notice to proceed**
2. **Contractor** has to design/engineer bridge supports/abutments
3. **Contractor** shall construct the abutments and substructure for the bridge on site utilizing a pile-supported integral abutment design based on provided geotech report.
4. **Contractor** shall deliver, unload on site, and install the bridge
5. Mandatory Pre-bid Meeting with Site Visit

General Construction:

1. Use of de-icing agents on bridge structure is highly discouraged
2. Bridge bearings shall be constructed at same elevation
3. UHMW or teflon coated setting plates shall be shipped loose from bridge
4. Anchor & abutment design shall be by bridge contractor.
5. Bridge deck shall be cambered 2'-7" at mid-span HSS square & rectangular tubing shall be ASTM a500 gr b
6. Flat plate, angle, and channel shall be ASTM a36 bridge metal deck pan shall be galvanized and fastened using mechanical fasteners; 4,000psi concrete shall be provided by others for deck above metal pan. Temperature/shrinkage reinforcement and crack control joints are the responsibility of others all splice hardware shall be hot-dip galvanized (HDG); splice bolts shall be ASTM a325; splice washers shall be ASTM f436; splice nuts shall be ASTM a563, gr c or dh
7. Shop welding shall conform to the requirements of AWS d1.1:2010, steel structural welding code
8. Debur all exposed welds which may come in contact with pedestrians
9. All exterior surfaces of frame shall be blast cleaned in accordance with sspc-sp7

General Conditions:

1. AASHTO LRFD guide specifications for the design of pedestrian bridges, 2009
2. AASHTO LRFD bridge design specifications-7th edition, 2014 w/ 2015 & 2016 interim revisions
3. AASHTO standard specifications for structural supports for highway signs, luminaires, and traffic signals, 2013
4. AISC part 16.1-2010 specification for structural steel buildings
5. Galambos - guide to stability design criteria for metal structures, 1998
6. Standard engineering practice
7. This structure has not been analyzed for flood loading
8. Submittal calculation package design criteria
 - 90 psf live load
 - 10,000 lb vehicle load, 80% on rear axle
 - 50 plf rail live load, 200 lb rail point load
 - 90 mph wind load

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1 OVERALL SITE PLAN
SCALE: 1" = 80'