

Job Number: JSL0112

Route: NOR

County: St. Charles

JOB SPECIAL PROVISIONS TABLE OF CONTENTS (BRIDGE)

A. Construction Requirements	1
B. Decorative Pedestrian Fence	2
C. Drainage System	3

	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 W. CAPITOL AVE. JEFFERSON CITY, MO 65102 Phone 1-888-275-6636
	<i>CDG Engineers</i> <i>One Campbell Plaza</i> <i>St. Louis, Missouri 63139</i> Certificate of Authority: #1271 Consultant Phone: 314-781-7770
	If a seal is present on this sheet, JSP's have been electronically sealed and dated.
	JOB NUMBER: JSL0112 ST. CHARLES COUNTY, MO DATE PREPARED: 03-04-2025
	ADDENDUM DATE:
Only the following items of the Job Special Provisions (Bridge) are authenticated by this seal: A through C	

A. Construction Requirements 104-BSP-01

1.0 Description. This provision contains general construction requirements for this project.

2.0 Construction Requirements. The plans and the asbestos and lead inspection report(s) for the existing structure(s) and the geotechnical report for the new structure(s) are included in the contract in the bridge electronic deliverables zip file for informational purposes only.

2.1 In order to assure the least traffic interference, the work shall be scheduled so that the bridge closure is for the absolute minimum amount of time required to complete the work. The bridge shall not be closed until material is available for continuous construction and the contractor is prepared to diligently pursue the work until the closed bridge is opened to traffic.

2.2 Provisions shall be made to prevent any debris and material from falling into the waterway. If determined necessary by the engineer, any debris and material that falls below the bridge outside the previously specified limits shall be removed as approved by the engineer at the contractor's expense.

2.3 Any damage sustained to the remaining structure as a result of the contractor's operations shall be repaired or the material replaced as approved by the engineer at the contractor's expense.

2.4 Provisions shall be made to prevent damage to any existing utilities. Any damage sustained to the utilities as a result of the contractor's operations shall be the responsibility of the contractor. All costs of repair and disruption of service shall be as determined by the utility owners and as approved by the engineer.

3.0 Protective Coating.

3.1 Environmental Contact. Environmental Section may be contacted at the below address or phone number. The Missouri Department of Health may be contacted at (573) 751-6102.

MoDOT – Design Division – Environmental Section
P.O. Box 270
105 W. Capitol Ave., Jefferson City, MO 65102
Telephone: (573) 526-4778

3.2 Approved Smelter and Hazardous Waste Treatment, Storage and Disposal Facility.

The following is the approved smelter and hazardous waste treatment, storage and disposal facility:

Doe Run Company – Resource Recycling Division – Buick Facility
Highway KK
Boss, MO 65440
Telephone: (573) 626-4813

4.0 Method of Measurement. No measurement will be made.

5.0 Basis of Payment. Payment for the above described work will be considered completely covered by the contract unit price for other items included in the contract.

B. Decorative Pedestrian Fence 607-BSP-01

1.0 Description. This work shall consist of fabricating and installing a steel decorative pedestrian fence to provide a complete and properly functioning fence system as indicated on the plans and in this specification.

2.0 Performance Requirements.

2.0.1 The fence design shall allow for thermal movement of 1/4 inch per 30 feet of fence, minimum. The fence design shall account for the differential thermal expansion characteristics of the fence and concrete to which it is mounted.

2.0.2 Base plate shall be furnished for mounting posts to top of concrete. Base plate anchors shall be cast into the concrete.

2.1 Materials. Decorative fence system products shall meet or exceed the following requirements.

2.1.1 Acceptable Manufacturer Systems. The chosen decorative fence system shall be the same for all bridges in this project. Decorative fence system shall meet the performance requirements as stated in this special provision and shall consist of one of the following decorative fence systems:

1. Ameristar Brand – Aegis II Xtreme [Aegis II Xtreme | Ameristar \(ameristarperimeter.com\)](http://ameristarperimeter.com)
 - a. Majestic
 - b. Classic
2. Merchants Metals Brand – Guardsman [Merchants Metals | Guardsman](https://www.metchantsmetals.com/guardsman/)
(<https://www.metchantsmetals.com/guardsman/>)
 - a. Monroe
 - b. Lafayette

2.1.2 Visual Condition. Metal free from surface blemishes shall be provided where exposed to view in the finished unit. Exposed-to-view surfaces exhibiting pitting, seam marks, roller marks, stains, discolorations, or other imperfections on finished units are not acceptable.

2.1.3 Surface Coatings. The steel shall be hot-dip galvanized to meet the requirements of ASTM A 653 with a minimum zinc coating weight of 0.90 oz/sf, coating designation G-90. Surface preparation of galvanized surface for the aliphatic polyurethane finish coat shall be in accordance with the product specifications for the finish coat. The exterior of all fence components shall be coated with an aliphatic polyurethane finish coat to provide a total dry film thickness of 4 mils minimum and 6 mils maximum. The color of the finish coat shall be black (Federal Standard #17038).

2.2 Construction Requirements.

2.2.1 Delivery, storage, handling and installation methods shall be per fence manufacturer's recommendations.

2.2.2 Fence posts shall be spaced no greater than the maximum post spacing shown on the plans, plus one-half inch. For installations along sloping grades, the post spacing will be measured along the grade. Separation gaps shall be provided at a minimum of every six panels.

2.2.3 For field assembly, zinc-rich primer shall be applied to thoroughly cover field-cut or field-drilled edges. Two coats of manufacturer supplied finish paint shall be applied to match fence color.

2.3 Warranty. All structural fence components shall be warranted by the manufacturer for a period of ten (10) years from the date of final acceptance by the engineer. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering, or corrosion and necessary labor required to replace or restore such parts.

3.0 Method of Measurement. Measurement shall be made horizontally and to nearest linear foot of fence installed.

4.0 Basis of Payment. Payment for the work described above and on the contract plans, including all material, equipment, labor, and any other incidental work necessary, will be considered completely covered by the contract unit price for (60 in.) Decorative Pedestrian Fence (Structures).

C. Drainage System 712-BSP-03

1.0 Description.

1.1 This work shall consist of furnishing, fabricating and installing the drainage items necessary to complete the entire drainage system as shown on the contract plans.

1.2 Detailed shop drawings of the drainage system shall be prepared and submitted to the engineer. Shop drawings shall be in accordance with [Sec 1080](#). Catalog data may be furnished for components that are standard manufactured items in lieu of detailed drawings, provided that governing dimensions are given.

2.0 Materials.

2.1 Reinforced fiberglass pipe, collection basins and fittings shall be a Reinforced Thermosetting Resin Pipe (RTRP) system in accordance with the requirements of ASTM D 2996. The RTRP system shall have a minimum short time rupture strength hoop tensile stress of 30,000 psi. The RTRP system shall be pigmented resin throughout the wall. The color of the RTRP system shall be concrete gray or as specified on the bridge plans. The RTRP system shall not be coated with paint, gel-coat or any other exterior coating.

2.2 The contractor shall furnish a manufacturer's certification to the engineer for each lot furnished, certifying that the materials supplied are in accordance with all requirements specified. The certification shall include results of all required tests. Acceptance of the material will be based on the manufacturer's certification and upon results of such tests as may be performed by the engineer. The certification shall show the quantity and lot number that is represented.

3.0 Construction Requirements.

3.1 All connections shown on the plans to facilitate future removal for maintenance cleanout or flushing shall be made with a threaded gasket coupler system, bolted gasket flange system or a female to male threaded PVC plug. Adhesive bonded joints will be permitted for runs of pipe between such connections.

3.2 Runs of pipe shall be supported at a spacing of not greater than the lesser of those as recommended by the manufacturer of the pipe or as shown on the bridge plans. Supports that have point contact or narrow supporting areas shall be avoided. Standard sling, clamp, clevis hangers and shoe supports designed for use with steel pipe may be used. Minimum hanger thickness shall be 3/16 inch with the minimum strap width for the pipe sizes shown in the table below. Straps shall have 120 degree minimum contact with the pipe. Pipe supported on a surface with less than 120 degrees of contact shall have a split fiberglass pipe protective sleeve bonded in place with adhesive. All new steel, hangers and miscellaneous hardware for drainage system shall be ASTM A 709 Grade 36 steel except as noted on the bridge plans. All new steel, hangers and miscellaneous hardware for drainage system shall be galvanized in accordance with ASTM A 153 except as noted on the bridge plans.

Pipe Size inches (mm)	Minimum Strap Width inches (mm)
3 (76.2)	1.25 (32)
4 (101.6)	1.25 (32)
6 (152.4)	1.50 (38)
8 (203.2)	1.75 (45)
10 (254.0)	1.75 (45)
12 (304.8)	2.00 (51)
14 (355.6)	2.00 (51)

3.3 The RTRP system shall be handled and installed in accordance with guidelines and procedures as recommended by the manufacturer.

3.4 When the drainage system continues between superstructure units and/or between the superstructure and substructure units, the drainage system shall have allowance for the expected differential expansion and contraction movements as recommended by the manufacturer. Runs of pipe shall not exceed 200 feet in length.

4.0 Method of Measurement. No measurement will be made.

5.0 Basis of Payment. Payment for the above described work, including all material, equipment, labor and any other incidental work necessary to complete this item will be considered completely covered by the contract lump sum price for Drainage System (On Structure).