ARKANSAS DEPARTMENT OF TRANSPORTATION
MAINTENANCE PLANS

ARKANSAS RIVER PIER PROTECTION REPAIRS (S)
CONWAY, FRANKLIN & PULASKI COUNTIES
ROUTES 30, 9, & 23 SECTIONS 23, 7, & 6
JOB 012357
FED. AID PROJ. STPAC-0076(123)

Bridge Information

1. Bridge No. 02768
   Log Mile: 140.41
   Clear Bridge Width: 95.1'
   Bridge Length: 3040.0'

2. Bridge No. A1210
   Log Mile: 12.24
   Clear Bridge Width: 28.0'
   Bridge Length: 1537.3'

3. Bridge No. 05050
   Log Mile: 6.24
   Clear Bridge Width: 28.0'
   Bridge Length: 1893.4'

VICINITY MAPS

This job does not impact vehicular traffic, so a TMP is not required.
SCOPE OF WORK - Site 2, SH 23 Bridge over Arkansas River in Ozark

1. Refill existing pier protection cells on north side of Pier 11 and north side of Pier 12 with riprap.
2. Place new cell mounted navigation light on west side of Pier 21.

1. Drifting Empty Barge Design Water Surface Elevation
2. Normal Operating Design Water Surface Elevation

- 
- 231.0 Ft.
- 2,800 Ft./Sec.
- 1,440 Kips

MAINTENANCE OF MARINE TRAFFIC AND COAST GUARD NAVIGATION:

At least thirty (30) days prior to commencement of construction activity at the site, the Contractor shall notify the USCG of the beginning of the construction activity. For all general communication, the Contractor shall coordinate with the U.S. Coast Guard (USCG) through David Orzechowski, Chief of Bridge Inspection, U.S. Coast Guard, (314) 269-2382, david.a.orzechowski@uscg.mil.

1. Riprap "Removal and Disposal of Pier Protection (Waterway)" pay item.
2. Riprap to be used to fill pier protection cells shall be as per the Dumped Riprap Special Provision. Contractor will be required to remove all components of existing pier protection cell to the satisfaction of the Engineer. In cases of emergency, the Contractor shall immediately notify the USCG using the contact information below. For all general communication, the Contractor shall coordinate with the U.S. Coast Guard (USCG) through David Orzechowski, Chief of Bridge Inspection, U.S. Coast Guard, (314) 269-2382, david.a.orzechowski@uscg.mil.

ENVIRONMENTAL COMPLIANCE:

- Drifting Empty Barge Design Force
- Normal Operation Design Force

DESIGN LOADS:

as noted. Horizontal - NAD 83 (1997) Arkansas North Zone.

Contractor shall provide the following submittals prior to construction:

1. Fabrication Details of New Pier Protection Cell
2. Riprap Gradation Certification from the Material Source
3. Fabrication Details of Existing Pier Protection Cell
4. Riprap Gradation Certification from the Material Source

Design drawings and other Submittals shall be in accordance with FHWA Standard Specifications for Highway Construction and Materials, and shall be submitted to the Engineer for review and approval. Any necessary modifications shall require prior approval from the Engineer. The Contractor shall be responsible for all costs incurred in maintaining this project. The Contractor shall be responsible for any costs incurred in maintaining this project.

Specifications.

Construction, 2014, with applicable supplemental specifications and special provisions. Unless otherwise noted on the plans, all materials necessary for the completion of the contract. All materials of every description furnished by the Contractor shall be approved by the Engineer. All necessary materials shall be approved by the Engineer. The Contractor shall be responsible for any costs incurred in maintaining this project.

Construction. All welds shall be continuous. Shop welds shall only be as shown in the shop drawings and specifications. Special provisions and supplemental specifications. Contractor shall be responsible for all costs incurred in maintaining this project. The Contractor shall be responsible for any costs incurred in maintaining this project.

FHWA-1273

100-3

100-4

102-2

108-1

130-1

149-1

166-1

172-1

19341

MAINTENANCE OF MARINE TRAFFIC AND COAST GUARD NAVIGATION:

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## SCHEDULE OF BRIDGE QUANTITIES - JOB NO. 012357

<table>
<thead>
<tr>
<th>Item No.</th>
<th>BRIDGE</th>
<th>Unit</th>
<th>Site</th>
<th>Site 1 (I-30 Bridge)</th>
<th>Site 2 (Ozark Bridge)</th>
<th>Site 3 (Morrilton Bridge)</th>
<th>Total for Job No. 012357</th>
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**Notes:**
- LUMP SUM
- CU. YD.
- SYSTEM
- LIGHTING
- NAVIGATION
- RIPRAP
- DUMPED
- ITEM NO.
- ITEM
- UNIT
- SITE
- SITE 1 (I-30 BRIDGE)
- SITE 2 (Ozark BRIDGE)
- SITE 3 (Morrilton BRIDGE)
### SUMMARY OF QUANTITIES AND REVISIONS

<table>
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<tr>
<th>NUMBER</th>
<th>SHEET</th>
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<td>STRUCTURAL STEEL IN BEAM SPANS (A709, GR.36)</td>
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### Notes
- DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
- GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
- MOBILIZATION REMOVAL AND DISPOSAL OF PIER PROTECTION (WATERWAY)
- SPECIAL PROVISIONS ADDED "DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION"
Refill Cell (Approx. 186 cu. yd.)

Notes:
- The site plan shows the existing pier and other structure details.
- The existing pier and structure details are shown for reference.
- For the project, additional information is added for clarity.
- Additional information is added for photo copy of the original drawings.
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SITE 1 - I-30 BRIDGE PLAN VIEW

SECTION A-A

SECTION B-B

SECTION C-C

Route: I-30
I-30 BRIDGE GENERAL PLAN (SITE 1)

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY:
CHECKED BY:
DESIGNED BY:
DATE:
DATE:
DATE:
FILENAME:
SCALE:

Refill Cell (Approx. 93 cu. yd.)

Refill Cell (Approx. 31 cu. yd.)

Refill Cell (Approx. 2,860 cu. yd. Riprap)

Place Navigation Light

Remove & Replace Cell (Approx. 186 cu. yd.)
Notes:

1. Drawings show general features of design only. Shop drawings showing details and the
   shop drawings in accordance with specifications including fabricated and manufactured
   before fabrication begins.

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   shop drawings showing details and the shop drawings in accordance with specifications
   including fabricated and manufactured elements before fabrication begins.

3. All Structural Steel and all related work including materials, equipment, labor,
   and incidentals shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
   pay item, per pound.

4. All Structural Steel and all related work including materials, equipment, labor,
   and incidentals shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
   pay item, per linear foot.

5. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

6. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
   pay item, per pound.

7. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

8. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
   pay item, per linear foot.

9. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

10. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
    pay item, per pound.

11. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

12. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
    pay item, per linear foot.

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30. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
    pay item, per pound.

31. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

32. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
    pay item, per linear foot.

33. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

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    pay item, per pound.

35. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

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    pay item, per linear foot.

37. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

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    pay item, per pound.

39. Riprap shall be paid for under the "Dumped Riprap" pay item, per cubic yard.

40. Riprap shall be paid for under the "Structural Steel in Beam Spans (A709, GR.36)"
    pay item, per linear foot.
TYPICAL DETAIL "TIER SERVICE"

1. FIXTURES: a) Pier Protection markers, 20' dep.
   b) 8'0" Electromagnetic, 2 wire, 1/0 AWG. 2 wire, 1/0 AWG, green, service
   line and automatic changer, or equivalent, A-3-2-9.
2. Transmission - 120/240Volt x 6 conductors in control panel and 2 for T.E. cell
   and variable.
3. Ground Wire - included through ground system. Bond All fixtures.
4. Pre-insulated Copper Conductor, 2 wire, 1/0 AWG. Pre-insulated Insulation.
   Provide insulated connections for Aluminum to Copper Connections.
5. Coordination Wire: Primary Connection with Arranging Power. Power
   lines, 100 amp, 120/240 Volt, 12/3. 4 wire, 12/3 and 1/0 AWG, 12/3. 4 wire, 12/3.
   Provide and install pier lighting system. Provide and install pier
detailing as shown on this sheet.
6. Provide junction boxes or pull boxes as required to suit the
   electrical conditions and conforming with the National Electrical Code.