MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIDED SLAB SPANS

FINAL PLANS

SECTION THRU EXISTING SLAB

<table>
<thead>
<tr>
<th>Item</th>
<th>Total Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substructure Repair (unformed)</td>
<td>5 sq. feet</td>
</tr>
<tr>
<td>Repairing Curb</td>
<td>10 linear feet</td>
</tr>
</tbody>
</table>

GENERAL NOTES:

- **Design Specifications:**
  - 2002 - ASHRAE 90.1-97 Edition
  - Bridge Deck Rating = ?

- **Design Unit Stresses:**
  - Class B-1 Concrete: f'c = 4,000 psi
  - Reinforcing Steel (Grade 60): fy = 60,000 psi

- **Joint Fillers:**
  - All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

- **Reinforcing Steel:**
  - Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.
  - Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

- **Verify Dimensions:**
  - Contractor shall verify all dimensions in field before ordering new materials.

- **Miscellaneous:**
  - Outline of old work is indicated by dashed lines.
  - Heavy lines indicate new work.
  - "Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.
  - Curb repair areas shall be patched with a qualified special mortar in accordance with Sec 704.

- **Traffic:**
  - See roadway plans for traffic control during construction.

REPAIRS TO BRIDGE:
RTE. 71 NBL OVER BANNISTER ROAD
STATE ROAD GRANDVIEW TO BLUE RIVER ROAD
ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. STA. 413+50.404 (E. MEDIAN)
JOB NO. 491ST
RTE. 71 NBL

LO8424
LO8423

PART ELEVATION SHOWING SUBSTRUCTURE REPAIR (UNFORMED)
NOTES:

Any repair in the remainder of the bridge that is within 4 ft of zone A shall be completed before removing old concrete in zone A.

Zones with the same letter designation may be repaired at the same time.

PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES
GENERAL NOTES:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Asphal Repairs</td>
<td>12000 ft²</td>
</tr>
<tr>
<td>2</td>
<td>Replacing Deck (12&quot;)</td>
<td>4.56 m³</td>
</tr>
<tr>
<td>3</td>
<td>Low Slump Concrete Wearing Surface</td>
<td>1664 ft²</td>
</tr>
</tbody>
</table>

REPAIRS TO
BRIDGE OVER BANNISTER ROAD
STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 1 mile North of Rte. I-435
PROJECT NO. STA. 413+50.4
JOB NO. JAP1217
RTE. 71
JACKSON
COUNTY
DATE 9/24/66

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW Plan DETAIL.
REPAIRS TO
BRIDGE OVER BANNISTER ROAD
STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. STA. 413+50.4 (E MEDIAN)
JOB NO. 4 UDTI 528
JACKSON
DATE 11/30/03

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FIRST STAGE CONSTRUCTION

SECOND STAGE CONSTRUCTION

PLAN

ESTIMATED QUANTITIES

Note: Any concrete removed for bridge repairs shall be removed completely and disposed of in accordance with current laws and regulations. Glass, metal, or other foreign objects shall be removed and disposed of in accordance with current laws and regulations.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 2

Note: Left lane shown right lane is similar.

Note: Light dashed lines indicate old work. Heavy lines indicate new work.
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIED SLAB SPANS

SECTION THRU EXISTING SLAB

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**Estimated Quantities**

<table>
<thead>
<tr>
<th>Item</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substructure Repair (unformed)</td>
<td>500</td>
</tr>
<tr>
<td>Steel Rods</td>
<td>1100</td>
</tr>
<tr>
<td>Curb Repair</td>
<td>217</td>
</tr>
</tbody>
</table>

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**GENERAL NOTES:**

- Design Specifications:
  - 2002 - AASHTO 7th Edition
  - Bridge Deck Rating T T

- Design Unit Stresses:
  - F'c = 4,000 psi
  - fy = 60,000 psi

- Joint Filler:
  - All joint filler shall be in accordance with Sec 1052 for prestressed concrete and expansion and partition joint filler, except as noted.

- Reinforcing Steel:
  - Minimum clear space to reinforcing steel shall be 1½" unless otherwise shown.
  - Bars bonded into concrete shall be cleanly stripped of adhering cement prior to placement of concrete.
  - Concrete shall extend into rebar at least 4".

- Verify Dimensions:
  - Contractor shall verify all dimensions in field before ordering new material.

- Miscellaneous:
  - Outline of old work is indicated by dashed lines. New work is indicated by solid lines.
  - "Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

- Traffic:
  - See roadway plans for traffic control during construction.

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**REPAIRS TO BRIDGE:**

**RTE. T1 NBL OVER BANNISTER ROAD**

STATE ROAD GRANDVIEW TO BLUE RIVER ROAD

ABOUT 5.0 MILES S. OF GRANDVIEW

PROJECT NO. STA. 41S+50-42+4 (W MEDIAN)

JOB NO. J4P1577 RTE. T1 NBL

JACKSON COUNTY

349
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (56'-56'-56'-6'-46') CONTINUOUS VOIDED SLAB SPANS

34'-0"

2'-4"

50'-0" Roadway

15'-0"

24'-0"

2'-0" Temporary Traffic Control

E Existing Structure

Device (Roadway Item)

Curb Repair

SECTION THRU EXISTING SLAB

Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Sq. Ft.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substructure Repair (Unformed)</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Reinforcing Curb</td>
<td>1/17</td>
<td>2/17</td>
</tr>
</tbody>
</table>

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition
Bridge Deck Rating = 6

Design Unit Stresses:
Class B-1 Concrete
f'c = 4,000 psf
f'c = 4,000 psf

Reinforcing Steel:
Class B-1 Concrete
f'c = 4,000 psf
f'c = 4,000 psf

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for
preformed sponge rubber expansion and partition joint filler,
except as noted.

Reinforcing Steel:
Minimum adherence to reinforcing steel shall be 1-1/2", unless
otherwise shown.

Bars bonded in old concrete not removed shall be cleanly stripped
and dressed into new concrete where possible. 1/8" length for
each 1/8" diameter for smooth bars and 30 diameters for
deformed bars, unless otherwise noted.

Verify Dimensions:
Contractor shall verify all dimensions in field before ordering
new materials.

Miscellaneous:
Quoting of old work is indicated by dashed lines. Heavy lines
indicate new work.

"Sec" refers to sections in the standard and supplemental
specifications unless specified otherwise.

Curb repair areas shall be patched with a qualified special
mixture in accordance with Sec 104.

Traffic:
See roadway plans for traffic control during construction.

REPAIRS TO BRIDGE:
RTE 71 SBL OVER BANNISTER ROAD
STATE ROAD GRANDVIEW TO BLUE RIVER ROAD
ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. 63 -3050-K02 (E-MEDIAN)
JOB NO. JQF1577
JACKSON COUNTY
LO8424
LO8424