BAR JOIST GIRDER ELEVATION}

SUPPORT

NOT TO SCALE

MOMENT SPLICE

THE 6.0K INCLUDES THE WEIGHT OF THE BG ORDER.

NOTE THAT THE ENDS HAVE A 6.0K DEAD LOAD ONLY.

WEIGHT ABOUT 75 PLF EACH.

WE REQUIRE A FAIRLY TIGHT BUDGET PRICE FOR

(2) TWO-SPAN OPEN WEB BAR JOIST GIRDER 96" V 3'4".

6.0K (SPECIAL LOADING) 15'-5" IN LENGTH WITH

MOMENT SPLICES AT THE THIRD POINT.

PLEASE PROVIDE W/ STANDARD SHOP PRIMER.

ARNOLD:

DAVID BRIDGERS:

FAX: (919) 467-3855
Copy NC 27712-8879

DCR Engineering, Inc.

Robertson County Covered Bridge

JOHNSON CREEK COVERED BRIDGE

B2-1 SUPPORT
WE REQUIRE A FAIRLY TIGHT BUDGET PRICE FOR (2), TWO-Span OPEN WEB BAR JOIST GIRDER 96BG 34N 6.0K (SPECIAL LOADING) 154'-5" IN LENGTH WITH MOMENT SPLICES AT THE THIRD POINTS. PLEASE PROVIDE W/ STANDARD SHOP PRIMER.

THESE PROBABLY WEIGH ABOUT 75 PLF EACH.

NOTE THAT THE ENDS HAVE GIRDER DEAD LOAD ONLY.

THE 6.0K INCLUDES THE WEIGHT OF THE BG GIRDER.

BAR JOIST GIRDER ELEVATION
NOT TO SCALE

(2) REQUIRED
KENTUCKY TRANSPORTATION CABINET

JOHNSON CREEK COVERED BRIDGE
ROBERTSON COUNTY

BEARING DETAIL

SECTION "A-A"

DETAIL A

DETAIL B

DETAIL C

DCF Engineering, Inc.
PO Box 878 * Cary, NC 27512-0878
(919) 677-3000 * Fax: (919) 677-3001

RATON ASSOCIATES

S11
NEW ABUTMENT CAP

EASTERN SHEET STEEL \nFRAMING

REPLACE THE CANTILEVER PLATE WITH A
FLEXIBLE METAL PLATE AT THE TOP OF EACH
POST.

EXISTING BRIDGE ABUTMENT

REPLACE THE BRACES

KENTUCKY TRANSPORTATION CABINET
JOHNSON CREEK COVERED BRIDGE
ROBERTSON COUNTY

S14
THE STEEL OPEN WEB GIRDERS WEIGH APPROXIMATELY 75 PLF.

THE STEEL OPEN WEB BAR JOIST GIRDERS, CONSISTING OF THREE SECTIONS EACH WILL BE ASSEMBLED INTO A UNIT DIRECTLY IN FRONT OF THE BRIDGE. TO MAINTAIN STABILITY, DIAGONAL AND HORIZONTAL ANGLE BRIDGING WILL BE BOLTED INTO PLACE.

THE TEMPORARY JOIST GIRDERS WILL BE CANTILEVERED INTO THE BRIDGE AND MOVED ON ROLLERS TO THE PIER WITHOUT STRESSING THE BRIDGE OR REQUIRING REMOVAL OF ANY HISTORIC BRIDGE MATERIAL.
After the temporary joist girders are set, steel W10x26 (Fy=50 ksi) needle beams will be inserted through the transverse section to support the bridge at the underside of the top chord. Support points will be strapped and wedged as necessary.
SUPPORT FOR THE TEMPORARY JOIST GIRDERS AT THE PIER CAN BE ACCOMPLISHED BY "CRIBBING THRU" THE FLOOR WITHOUT REMOVING ANY OF THE FLOORING, DIAGONAL FLOORING, STRINGERS, OR BEAMS.

TRANSVERSE SECTION

NOT TO SCALE

TRANSVERSE SECTION
NOT TO SCALE
TEMPORARY WALKWAYS AND WORK PLATFORMS CAN BE SUSPENDED FROM THE NEEDLE BEAMS TO ALLOW ACCESS TO THE WORK.