



FOR DETAILS OF END BENTS SEE DWG. NO. 16689.
 FOR DETAILS OF PIERS SEE DWG. NO. 16690.
 FOR DETAILS OF SUPERSTRUCTURE SEE DWG. NOS. 16691, 16692, 16693, 16694, 16695 AND 149900.

FED. ROAD DIST.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK	5	5	44
JOB NO.	5510			

NOTES:
 THE CONTRACTOR SHALL EXCAVATE CHANNEL AS SHOWN. THE CHANNEL BOTTOM SHALL SLOPE FROM ELEVATION 204.1 AT A POINT APPROXIMATELY 350' UPSTREAM TO ELEVATION 203.9 AT A POINT APPROXIMATELY 275' DOWNSTREAM. SIDE SLOPES SHALL BE APPROXIMATELY 16:1 (H:V) UP TO CHANNEL EXCAVATION.

THE EXISTING BRIDGE IS APPROXIMATELY 207 FT. LONG AND CONSISTS OF ONE 90" STEEL TRUSS SPAN WITH FOUR 14' TIMBER APPROACH SPANS ON THE SOUTH AND TWO 14' TIMBER APPROACH SPANS ON THE NORTH. THE BRIDGE HAS A 3" OAK DECK WITH ASPHALT OVERLAY, AN 18' CLEAR ROADWAY, 2000 POSTS AND METAL HANDRAIL, AND IS SUPPORTED ON TIMBER PILE BENTS.

MEMBERS AND GUARD RAILING WILL BE RETAINED BY THE STATE. ALL OTHER MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR. SEE SP 1006-3.

GENERAL NOTES

ALL CONCRETE TO BE CLASS 1, AND SHALL BE PLACED IN THE PILE, EXCEPT WHERE SHOWN OTHERWISE.

ROCK EXCAVATION SHALL BE MADE TO NEAT LINES OF CONCRETE FOOTINGS. CARE SHALL BE EXERCISED TO AVOID SHATTERING OF ROCK FACE BY EXCESSIVE BASTING. CONCRETE IN FOOTINGS SHALL BE POURED DIRECTLY AGAINST EXCAVATED SURFACES OF ROCK. FOOTINGS TO BE CARRIED A MINIMUM OF 3'-0" INTO FIRM SHALE.

PIILING IN END BENTS SHALL BE DONE BY THE CONTRACTOR WITH AN APPROVED PILE, CAP, OR WHEEL HAMMER TO A MINIMUM CAPACITY OF 55 TONS PER PILE AND INTO MATERIAL DESIGNATED AS HARD ELEV SHALE ON THE BORING LOG. ORDER LENGTHS AS SHOWN, CUT-OFF OR BUILD-UP, IF NECESSARY, TO BE MADE FOR IN ACCORDANCE WITH STANDARD SPECIFICATIONS. PILES IN END BENTS SHALL BE DRIVEN AFTER THE FOUNDATION OF THE BRIDGE.

IN GENERAL, ALL CONSTRUCTION JOINTS IN BENTS SHALL BE HORIZONTAL AND SHALL BE PROVIDED WITH KEYS NOT LESS THAN 1'-0" HIGH COVERING THE ENTIRE THIRD OF JOINT DIMENSIONS.

A DETAIL BRIDGE SHALL BE CONSTRUCTED AS SHOWN, APPROXIMATELY 600' UPSTREAM FROM THE EXISTING BRIDGE CENTER LINE. IT SHALL BE A MINIMUM OF 140 FT. IN LENGTH WITH 20' ROADWAY AND SHALL BE DESIGNED FOR 115 LIVE LOADING. THE DECK ELEVATION SHALL BE 202.0'. SEE SPECIAL PROVISIONS.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, 1961 SUPPLEMENTAL SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1959, 1961 SUPPLEMENTAL SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DESIGN LIVE LOAD: H20
 UNIT STRESSES: CLASS 3 CONCRETE (N=10) 1,200 PSI
 REINFORCING STEEL 20,000 PSI
 STRUCTURAL STEEL (A36) 20,000 PSI
 A572 STEEL (GRADE 42) 23,000 PSI

LAYOUT OF
 BRIDGE OVER BIG CREEK
 BIG CREEK & PANTHER CREEK
 BRIDGES & APPR.
 WHITE COUNTY

ROUTE 16 SEC. 13
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: J.P. Calver DATE: 7-24-69
 TRACKED BY: DATE: 7-24-69
 CHECKED BY: DV DATE: 12-1-69
 BRIDGE NO. 5924 DRAWING NO. 16658

FOUNDATION PRESSURE
 (CALCULATED) 11.9 ksf (GROUP III)

J.P. Calver
 BRIDGE ENGINEER