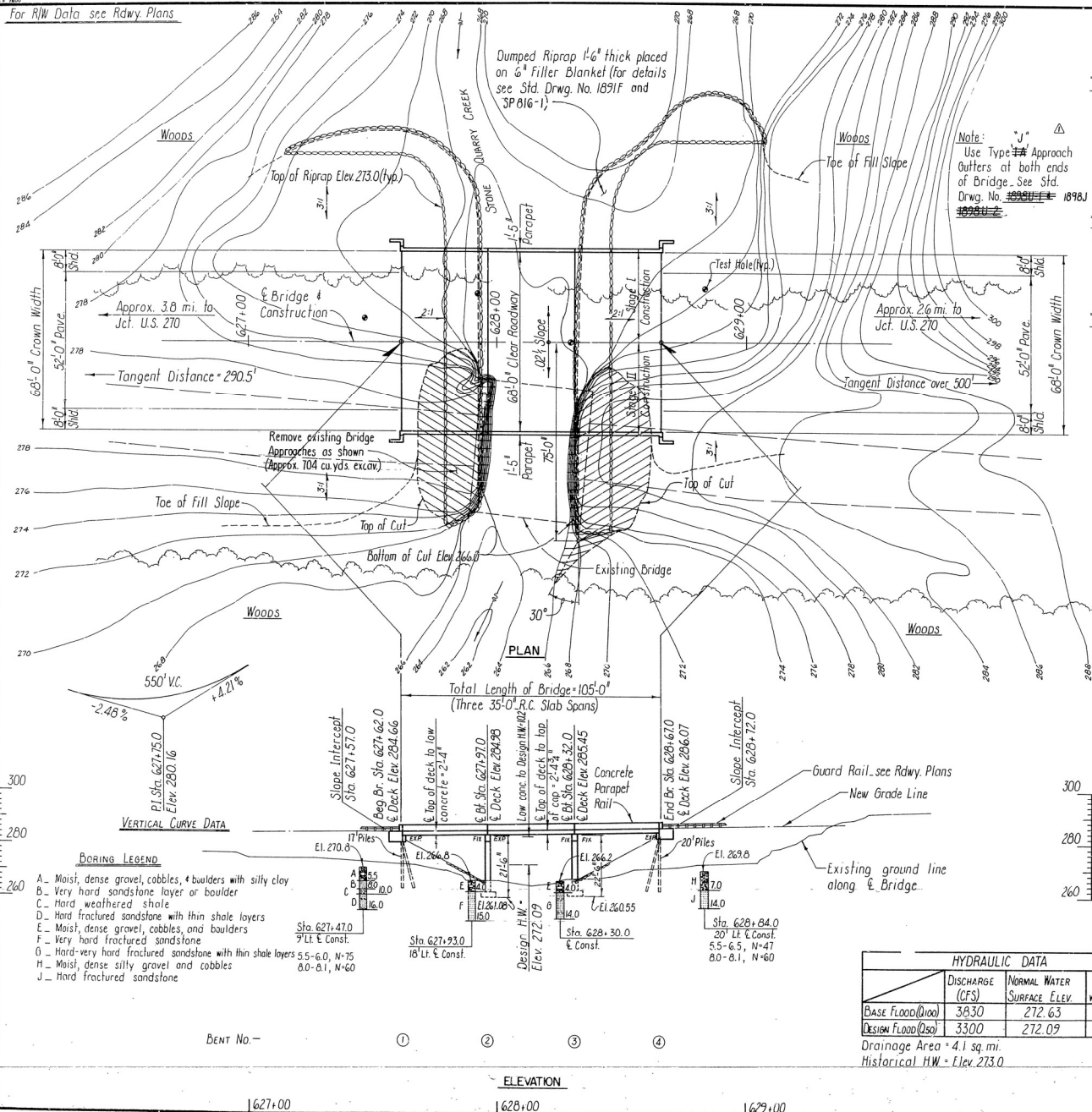


For RW Data see Rdwy. Plans



STAGE CONSTRUCTION DETAIL

No Scale

GENERAL NOTES

BENCH MARK: C.P.S. IN 30" OAK, 23' LT., CENTERLINE STA. 626+88.0, ELEV. 274.31.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977 EDITION WITH CURRENT INTERIMS.

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN LIVE LOAD: HS 20-44

DESIGN METHOD: LOAD FACTOR

CONCRETE: CONCRETE IN THE SUBSTRUCTURE SHALL BE CLASS "5". CONCRETE IN THE SUPERSTRUCTURE SHALL BE CLASS "5A(1)". ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f'_c = 3500$ PSI, AND SHALL BE POURED IN THE DRY. EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (fy = 60,000 PSI).

STRUCTURAL STEEL: STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR ASTM A572, GRADE 50 AS NOTED ON THE JETAIL DRAWING.

FOOTINGS: FOOTINGS FOR BENTS 2 AND 3 SHALL BE SET A MINIMUM OF 1'-6" INTO MATERIAL DESIGNATED ON THE BORING LOGS AS SHALE. FOUNDATIONS SHALL BE PREPARED IN ACCORDANCE WITH SUBSECTION 801.04 OF THE STANDARD SPECIFICATIONS. TOP OF FOOTINGS SHALL BE SET A MINIMUM OF 1'0" BELOW THE CHANNEL BOTTOM.

CALCULATED FOUNDATION PRESSURES: MAXIMUM 12.03 KSF (GROUP III) MINIMUM 3.53 KSF (GROUP III)

PILING: PILING IN BENTS 1 AND 4 SHALL BE HP10X42 AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE, AND INTO MATERIAL DESIGNATED ON THE BORING LOGS AS SHALE. ORDER LENGTHS SHOWN; CUT-OFF OR BUILD-UP, SHALL BE PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PILES SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER. PILING IN END BENTS SHALL BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE.

FOR DETAILS OF END BENTS, SEE DWG. NOS. 26169

FOR DETAILS OF INT. BENTS, SEE DWG. NOS. 26170

FOR DETAILS OF 35' F.C. SLAB SPAN, SEE DWG. NOS. 26171 & 26172

FOR DETAILS OF STEEL PILING, SEE DWG. NO. 14995A

FOR DETAILS OF APPROACH CUTTERS, SEE DWG. NOS. 18980 & 18981

DECK FINISH: THE ROADWAY SURFACE OF THE CONCRETE BRIDGE DECK SHALL BE GIVEN A TINE FINISH AS SPECIFIED FOR FINAL FINISHING IN SUBSECTION 802.23 FOR CLASS 6, ROADWAY SURFACE FINISH.

REMOVAL OF EXISTING BRIDGE: EXISTING BRIDGE NO. 2852 SHALL BE REMOVED AFTER STAGE I IS COMPLETED AND OPENED TO TRAFFIC, IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. BRIDGE NO. 2852 IS LOCATED AT LOG MILE 2.56. THE EXISTING 50' X 45' BRIDGE CONSISTS OF 4 CONCRETE SPANS SUPPORTED BY CONCRETE PIERS. PORTIONS OF THE EXISTING BRIDGE MAY HAVE TO BE REMOVED TO A GREATER EXTENT THAN REQUIRED BY THE SPECIFICATIONS IN ORDER NOT TO INTERFERE WITH NEW CONSTRUCTION.

ALL MATERIAL FROM THE EXISTING BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

HYDRAULIC DATA

DISCHARGE (CFS)	NORMAL WATER SURFACE ELEV.	N.W.S. ELEV. WITH BACKWATER
BASE FLOOD (100)	272.63	N/A
DESIGN FLOOD (250)	272.09	273.91

Drainage Area = 4.1 sq. mi.
Historical H.W. = Elev. 273.0

LAYOUT OF
BRIDGE OVER STONE QUARRY CREEK
JONES MILL - I-30
HOT SPRING COUNTY

ROUTE 51 SEC. 4
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DESIGNED BY: KMG DATE: 12 DEC 83
CHECKED BY: JLB DATE: 28 DEC 83
DESIGNED BY: JLB DATE: -

BRIDGE NO. 6025 DRAWING NO. 26168