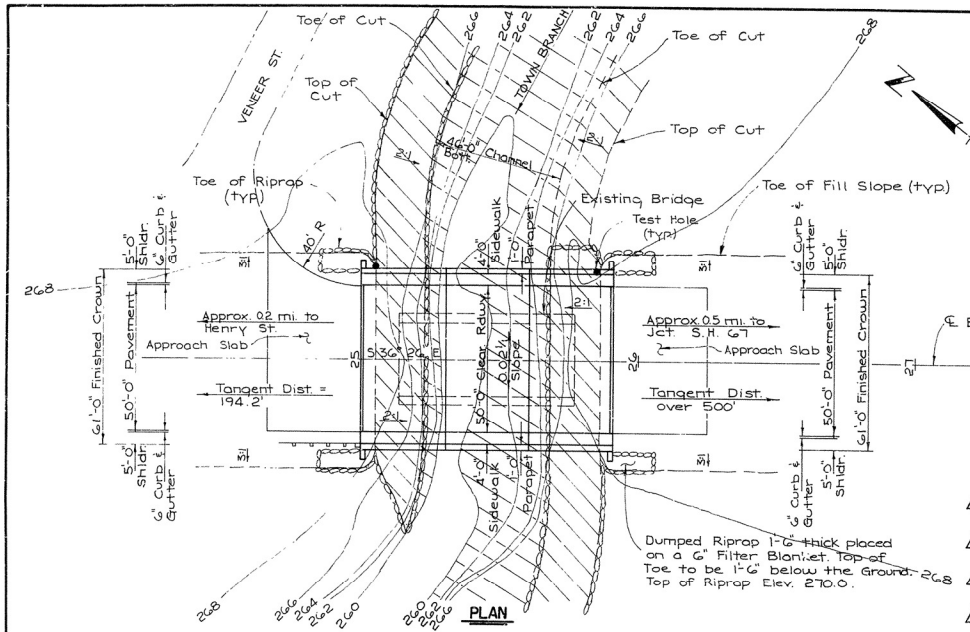
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	F-016-2(23)	21	110
				JOB NO.		6989		
				① 5833		LAYOUT	23143	



Note: For R/W Data and Guard Rail - See Rdwy. Plans

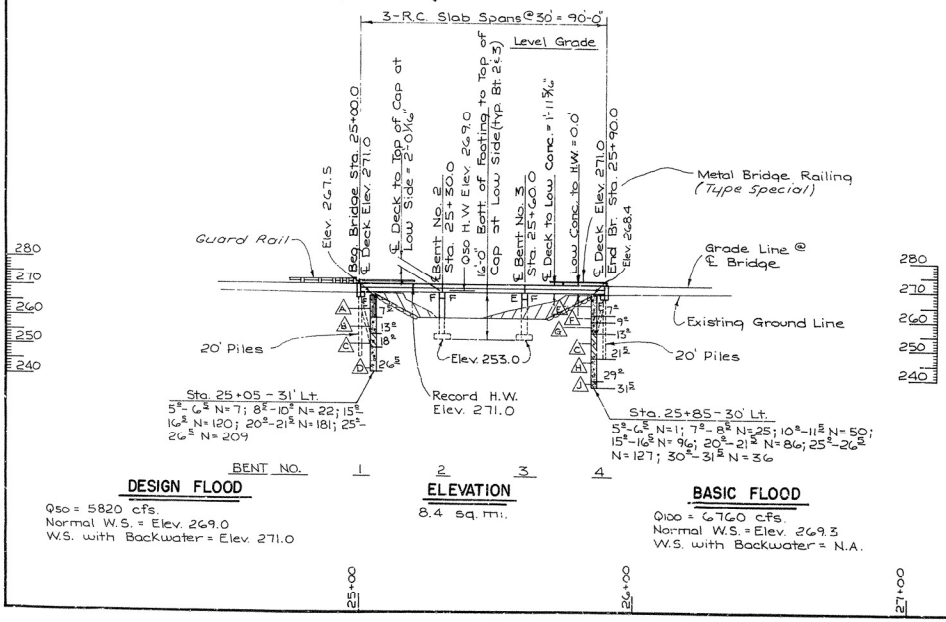
Note: For Approach Slabs and Gutters See Dwg. No. 23140 & 23149

Note: For Location Sketch of Channel Excavation - See Dwg. No. 23144

Note: For Construction Easement - See Rdwy Plans & 23144

BORING LEGEND

- A Moist, Medium Stiff, Light Brown Clayey Silt
- B Wet, Medium Dense, Light Gray Sand and Gravel
- C Moist, Very Hard, Brown Clay with Thin Seams of Lignite
- D Moist, Very Dense, Gray Sand with a Small Amount of Gravel and Lignite
- E Dry to Moist, Very Loose, Brown Sand and Gravel
- F Moist, Medium Dense, Gray Sand and Gravel
- G Moist, Dense, Gray Sand and Gravel
- H Moist, Very Dense, Gray Sand and Gravel with Some Lignite
- J Moist, Hard, Gray Sandy Clay



DESIGN FLOOD

Q50 = 5820 cfs.
Normal W.S. = Elev. 269.0
W.S. with Backwater = Elev. 271.0

ELEVATION

8.4 sq. mi.

BASIC FLOOD

Q100 = 6760 cfs.
Normal W.S. = Elev. 269.3
W.S. with Backwater = N.A.

GENERAL NOTES

BENCH MARK: "X" CHISELED ON TOP S.W. COR. HAND RAIL POST, 41' LT. STA. 166+50, ELEV. 271.89.

FOOTINGS SHALL BE SET A MINIMUM OF 1'-6" INTO VERY HARD BROWN CLAY WITH SEAMS OF LIGNITE. FOUNDATIONS FOR FOOTINGS SHALL BE PREPARED IN ACCORDANCE WITH SECTION 801.04 OF THE STANDARD SPECIFICATIONS.

ALL CONCRETE SHALL BE POURED IN THE DRY.

ALL PILING SHALL BE HP10X42 AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE AND A MINIMUM PENETRATION OF 15'. LENGTHS OF PILING SHOWN ARE FOR ESTIMATING QUANTITIES ONLY. ORDER LENGTHS SHOWN; CUT-OFF OR BUILD-UP, IF NECESSARY, TO BE PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PILES IN END BENTS TO BE DRIVEN AFTER EMBANKMENT TO SUBGRADE IS IN PLACE.

FOR DETAILS OF END BENTS, SEE DWG. NO. 23145
FOR DETAILS OF INTERMEDIATE BENTS, SEE DWG. NO. 23146
FOR DETAILS OF 30' R.C. SLAB SPANS, SEE DWG. NO. 23147 & 23147A

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

DESIGN SPECIFICATIONS: AASHTO 1977 SPECIFICATIONS WITH INTERIMS.

LIVE LOADING: HS20

METHOD OF DESIGN: LOAD FACTOR

DETOUR CONSTRUCTION: THE CONTRACTOR SHALL CONSTRUCT A DETOUR BRIDGE 50' NORTH-EAST OF SURVEY CENTERLINE. THE BRIDGE SHALL BE 65' LONG WITH A MINIMUM CLEAR ROADWAY OF 24' AND A MINIMUM DECK ELEVATION OF 268. DESIGN LOADING H15. SEE SECTION 603 OF THE STANDARD SPECIFICATIONS.

REMOVAL OF EXISTING BRIDGE: THE CONTRACTOR SHALL REMOVE THE EXISTING 65' BRIDGE IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. THE BRIDGE CONSISTS OF FOUR 16' CONCRETE SLAB SPANS ON CONCRETE COLUMN BENTS. ALL MATERIAL FROM THE EXISTING BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

LAYOUT OF BRIDGE OVER TOWN BRANCH
HWY. 270 RR OVERPASS WIDENING (MALVERN)
HOT SPRINGS COUNTY
ROUTE 270 SEC. 7
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: TEB DATE: 7-14-78
CHECKED BY: [illegible] DATE: 7-17-78 SCALE: 1" = 20'-0"
DESIGNED BY: [illegible] DATE:

Neal Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 5833 DRAWING NO. 23143