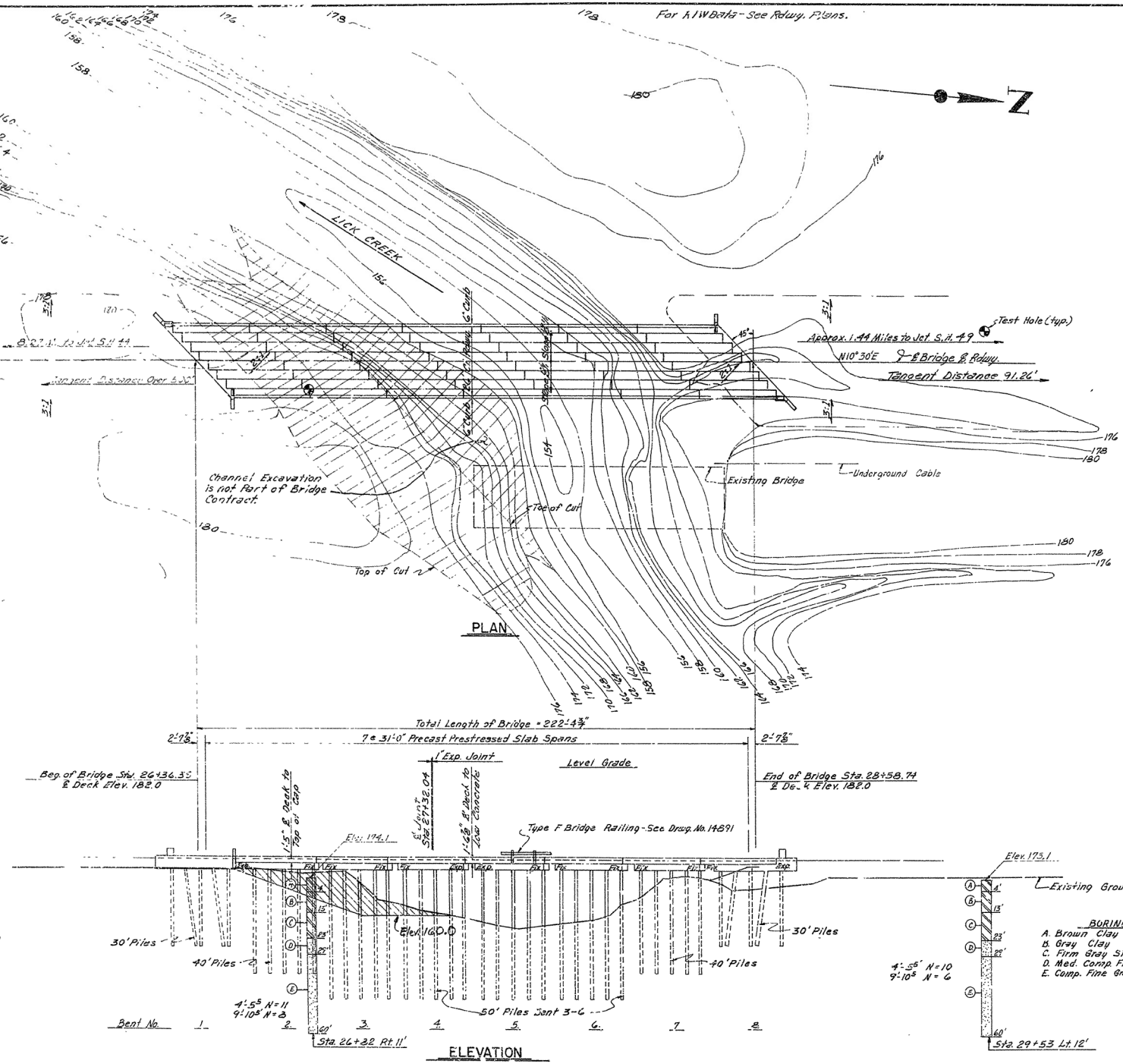
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO	STATE	FED. AID PROJ.	FISCAL YEAR	SHT. NO.
				6	ARK.			
				JOB NO		11-617		

4 | 5 Ⓘ 5416 Layout 17222

For R/W Data - See Rdwy. Plans.



BORING LOG

A. Brown Clay
B. Gray Clay
C. Firm Gray Silty Sand Water Bearing.
D. Med. Comp. Fine Gray Water Bearing Sand.
E. Comp. Fine Gray Water Bearing Sand.

GENERAL NOTES

BENCH MARK - TOP WHEEL GUARD N-E CORNER EXISTING BRID
ELEVATION 182.48.

ALL CONCRETE SHALL BE POURED IN THE DRY.

ALL PILING SHALL BE 16" OCTAGONAL PRECAST CONCRETE A
SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESE
HAMMER TO A MINIMUM BEARING CAPACITY OF 44 TONS PER
AND TO A MINIMUM PENETRATION OF 20 FEET BELOW THE GR
LINE. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIM
QUANTITIES ONLY. ACTUAL LENGTHS TO BE DETERMINED IN
FIELD. DRIVE ONE 55' TEST PILE IN BENT NO. 3 AND ONE 4
PILE IN BENT NO. 7

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

FOR DETAILS OF END BENTS SEE DRWG. NO. 17223.
FOR DETAILS OF INT. BENTS SEE DRWG. NO. 17224.
FOR DETAILS OF 31' PRESTRESSED PRECAST SLAB SPANS SE
DRWG. 14890, 14891
FOR DETAILS OF PRECAST CONCRETE PILING SEE DRWG. NO.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION ST
SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 19
THE 1966 SUPPLEMENTAL SPECIFICATIONS AND APPLICABLE
PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1961
LIVE LOADING: H15
UNIT STRESSES: CLASS S CONCRETE (N=10) 1,200 P
REINFORCING STEEL 20,000 P

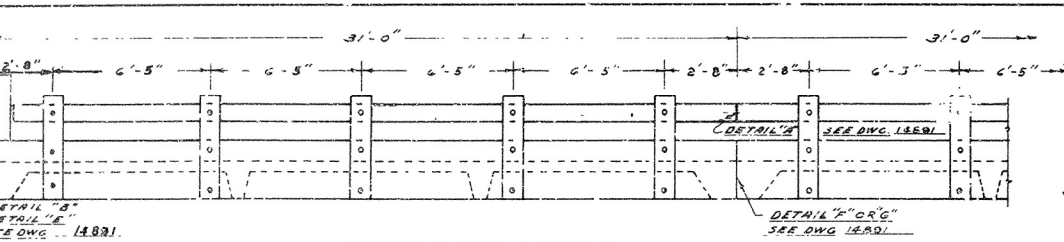
SEE DRWG. NO. 14890 FOR UNIT STRESSES IN 31' PRESTRE
PRECAST SLAB UNITS.

LAYOUT OF BRIDGE
OVER LICK CREEK
LICK CREEK BRS. & APPRS.
PHILLIPS COUNTY
ROUTE 85 SEC. 1
ARKANSAS STATE HIGHWAY COMMIS
LITTLE ROCK, ARK.

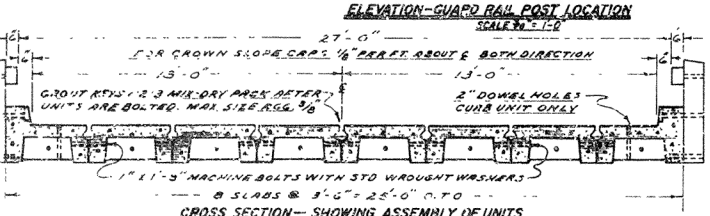
DRAWN BY: W.H.W. DATE: 1-11-71
TRACED BY: DATE:
CHECKED BY: DATE:
SCALE: 1"=20'-0"

Verl Pinkerton
BRIDGE ENGINEER

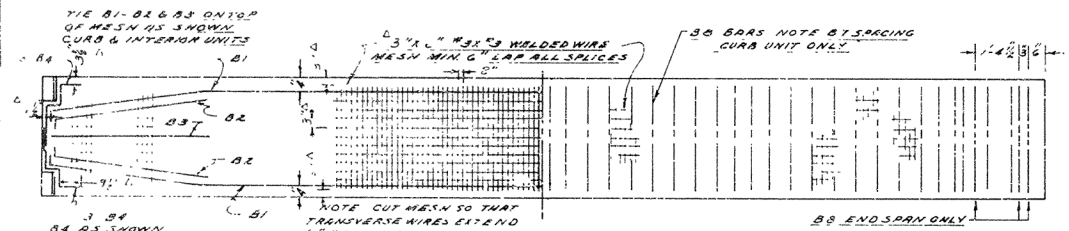
BRIDGE NO. 5416 DRAWING NO. 17



ELEVATION-GUARD RAIL POST LOCATION
SCALE 3/8" = 1'-0"



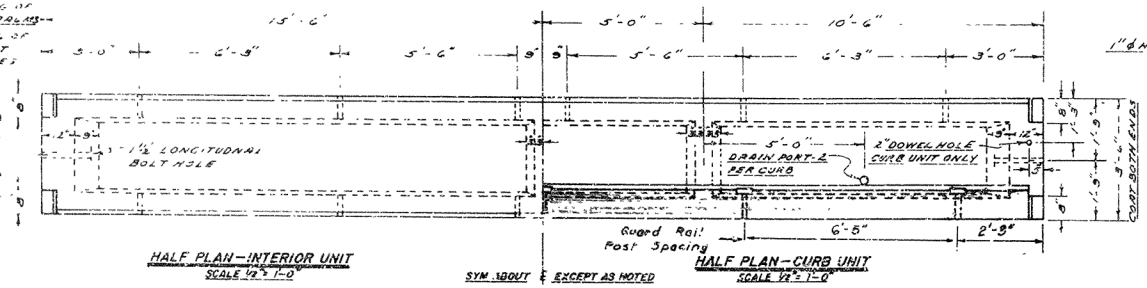
CROSS SECTION— SHOWING ASSEMBLY OF UNITS
SCALE 3/8" = 1'-0"



HALF PLAN-SHOWING REINFORCING-CURB & INTERIOR
SCALE 1/2" = 1'-0"

SYM ABOUT ℄ EXCEPT AS NOTED

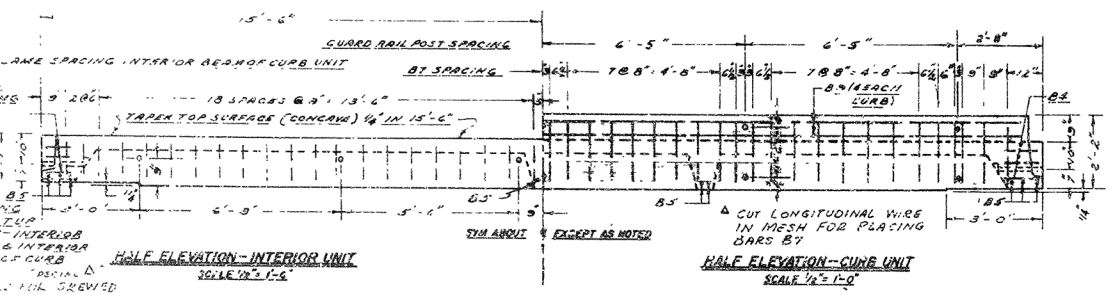
HALF PLAN-SHOWING REINFORCING-CURB ONLY
SCALE 1/2" = 1'-0"



HALF PLAN—INTERIOR UNIT
SCALE 1/2" = 1'-0"

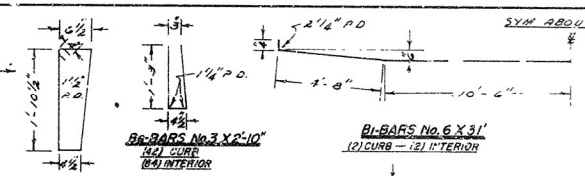
SYM ABOUT ℄ EXCEPT AS NOTED

HALF PLAN—CURB UNIT
SCALE 1/2" = 1'-0"

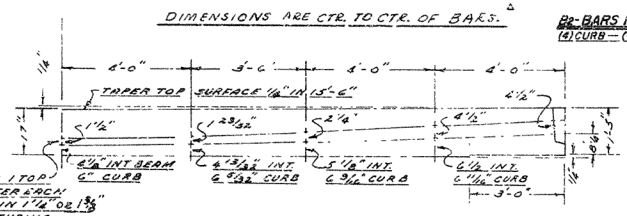


HALF ELEVATION—INTERIOR UNIT
SCALE 1/2" = 1'-0"

HALF ELEVATION—CURB UNIT
SCALE 1/2" = 1'-0"



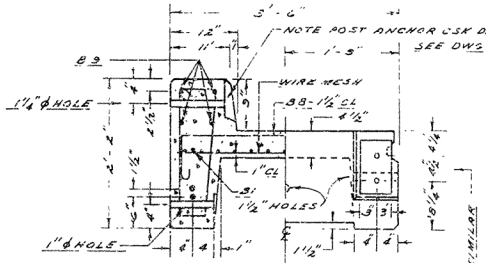
DIMENSIONS ARE CTR. TO CTR. OF BARS.



℄ 2-1" TENDONS 1 TOP & 1 BOTTOM CENTER EACH BEAM ENCASED IN 1 1/4" OD FLEXIBLE METAL TUBING

HALF ELEVATION-PRESTRESSING STEEL LOCATION-CURB & INTERIOR UNITS
SCALE 1/2" = 1'-0"

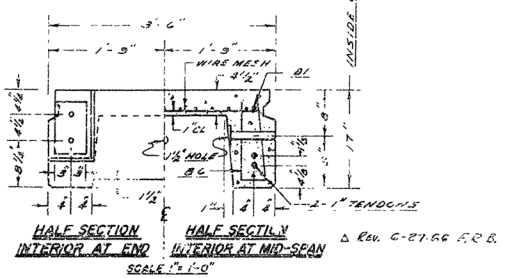
STRAIGHT BARS
B5-#4 - 3'-3"
10 PER CURB: 8 PER INT
B3-#6 - 5'-0"
2 PER UNIT
B9-#6 - 30'-2"
2 PER CURB



HALF SECTION CURB AT MID-SPAN

HALF SECTION CURB AT END

SCALE 1"=1'-0"

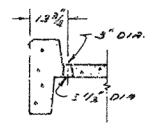


HALF SECTION INTERIOR AT END

HALF SECTION INTERIOR AT MID-SPAN

SCALE 1"=1'-0"

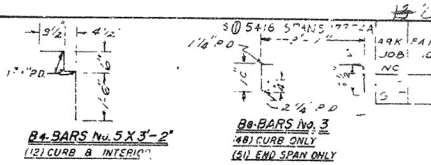
△ Rev. C-27-66 F.P.B.



DRAIN PORT DETAIL
SCALE 1/2" = 1'-0"

DESIGN DATA

SPECIFICATIONS: A.A.S.H.O. 1961
f_m = 30,000 PSI. f_c = 20,000 PSI.
f_c = 2,000 PSI. n = 6
LOADING: H15-44
LIVE LOAD PER BEAM—
— EXTERIOR 0.5 WHEEL.
— INTERIOR 0.5 WHEEL.



GENERAL NOTES

SPECIFICATIONS:
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATION HIGHWAY CONSTRUCTION, EDITION OF 1959.

CONCRETE:
ALL PRESTRESS CONCRETE SHALL BE CLASS "S" WITH A MINIMUM ST 5,000 PSI AT 28 DAYS
MINIMUM STRENGTH FOR HANDLING IS 3,000 PSI.
PRELIMINARY BAR TENSIONING OF 30,000 LBS MUST BE APPLIED IN UPPER BARS ONLY, BEFORE HANDLING.
FULL TENSION OF 87,000 LBS ON EACH TENDON, TO BE APPLIED AFTE CONCRETE REACHES A MINIMUM STRENGTH OF 4,000 PSI.
ALL EXPOSED CORNERS TO HAVE A 3/4" X 45° CHAMFER, ALL OTHER C TO BE ROUNDED TO 1/4" RADIUS.
CONCRETE WILL NOT BE PAID FOR DIRECTL . IT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF PRESTRESSED SLAB UNIT.

PRESTRESSING STEEL:
ALL TENDONS SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 160,0 MINIMUM YIELD OF 140,000 PSI, A.S.T.M. A322 AND A29.
TENDONS SHALL BE ENCASED IN A 1 1/4" FLEXIBLE METAL TUBING.
ALL TENDONS SHALL BE GROUTED AFTER FULL TENSION HAS BEE GROUT TENDONS WITH CEMENT AND WATER MIX, THIS MIX SHALL HAVE CONSIS . . OF HEAVY PAINT.
ALL . . SHALL BE GROUTED BY PRESSURE PUMP.
UN . . TO BE MOVED UNTIL GROUT HAS FULLY SET.
PI . . FOR HANDLING SHALL BE 3 FT. FROM EACH END.
W: . . ING THE TENDONS, CORRESPONDING TENDONS IN EACH E
Sh . . TENSIONED SIMULTANEOUSLY.
THE TENDONS SHALL BE TENSIONED FROM ONE END.
TENDONS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF PRESTRESSED SLAB UNIT.

WIRE MESH:
WIRE MESH SHALL CONFORM TO THE SPECIFICATIONS FOR W STEEL WIRE FABRIC, FOR CONCRETE REINFORCEMENT OF A.A.S.H.O SPE FOR HIGHWAY MATERIALS, DESIGNATION M55-60, A.S.T.M. DESIGNATION A WIRE MESH WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF PRESTRESSED SLAB UNIT.

REINFORCING STEEL:
REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE OR H
ALL REINFORCING STEEL AND WIRE MESH SHALL BE ACCURATELY LOCA FORMS AND SECURELY HELD IN PLACE BY MEANS OF STEEL WIRE SUPP
REINFORCING STEEL WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM OF PRESTRESSED SLAB UNI

HARDWARE:
ALL MACHINE BOLT CONNECTING SLAB UNITS WILL NOT BE PAID FOR DI BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE BID PRICE PER PREST SLAB UNIT.
PAINT ALL BOLT HEADS, WASHERS AND NUTS WITH ALUMINUM PAINT AF ASSEMBLY IS COMPLETE.

GROUTING OF KEYWAY:
GROUT 1:2:3 MIX-DRY PACK, MAXIMUM SIZE AGGREGATE 3/8"
MATERIAL AND LABOR FOR MIXING AND PLACING WILL NOT BE PAID FOR BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM OF PRESTRESSE UNIT.

COATING:
COATING TO BE APPLIED BETWEEN ENDS OF ADJACENT UNITS
THIS COATING SHALL CONSIST OF AN ASPHALTIC PAINT WITH ASBESTOS FIBE EACH SURFACE OF 1/16".
THE COATING SHALL ADHERE AND SET FIRM TO THE VERTICAL SURFACE OF CONCRETE.
THE SOFTENING POINT SHALL NOT BE LESS THAN 140°F.
THE COATING WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF PRESTRESSED SLAB UNIT.

TOLERANCES:
A DEVIATION OF MORE THAN 1/8" IN DIMENSION OR LINE WILL BE CAUSE REJECTION OF THE UNIT.

BID ITEMS FOR PRESTRESSED SLAB UNITS ARE:
PRESTRESSED SLAB CURB UNIT, EACH.
PRESTRESSED SLAB INTERIOR UNIT, EACH.

FOR ADDITIONAL DETAILS SEE DRAWING No. 14291

DETAILS OF STANDARD PRECAST SLAB BRIDGE 31' PRESTRESSED CONCRETE SL

26' 0" CLEAR ROADWAY
ROUTE 85 SEC. 1

ARKANSAS STATE HIGHWAY COMMISSIO
LITTLE ROCK, ARK.

Drawn By
Traced By
Checked By
Scale - NOTED
Sheet
BRIDGE DESIGN ENGINEER
BRIDGE No. 5416
DRAWING No. 14291