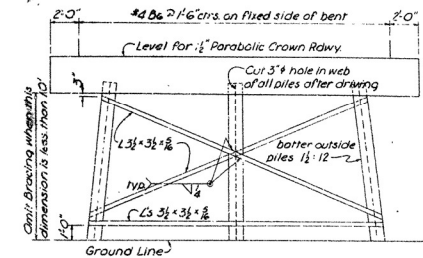
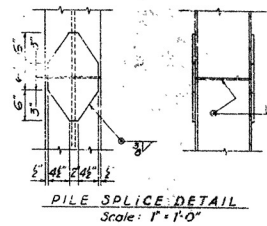
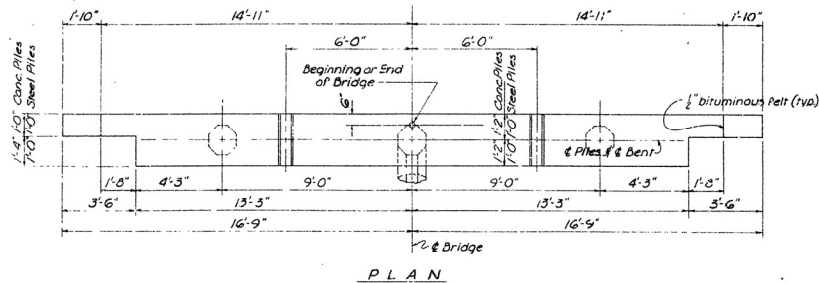
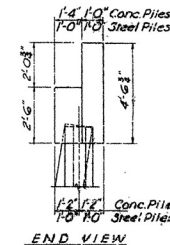
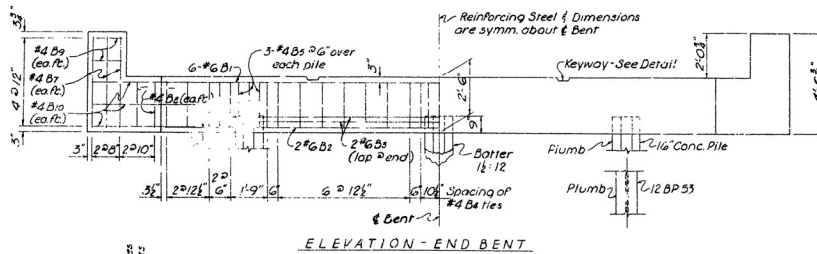


NOTE: The contractor may for his convenience and at his own expense provide as many as three splice per pile for steel bearing piles. Minimum splice length shall be 3 feet.

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	TX	42(4)		6785	28/100



NOTE: The length of bracing members shall be determined in the field. Each member shall be one continuous angle and shall be welded to steel bearing piles as shown. Angle bracing shall be measured and paid for as "Structural Steel" in item spans.



BAR LIST

AK	#	Size	No. Req'd	Length	Pin Dia.	Bending Diagram
B1	6	6	6	27'-7"	4"	
B2	6	2	2	26'-2"	Str.	
B3	6	4	4	22'-9"	4"	
B4	4	20	20	8'-9"	1 1/2"	
B5	4	20	20	8'-1"	1 1/2"	
B6	4	12	12	7'-0"	1 1/2"	
B7	4	12	12	6'-6"	1 1/2"	
B8	4	-	-	2'-6"	Str.	
B9	4	12	-	4'-5"	Str.	
B10	4	8	-	2'-5"	Str.	
B11	4	8	-	1'-7"	Str.	
B12	4	12	-	5'-0"	Str.	

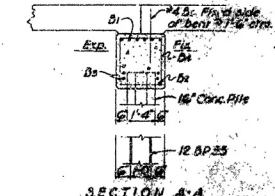
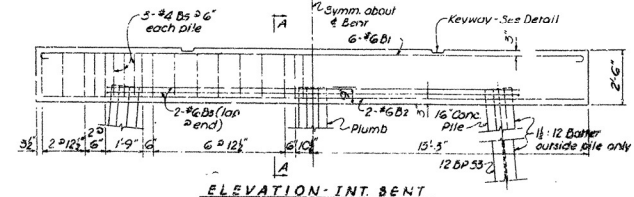
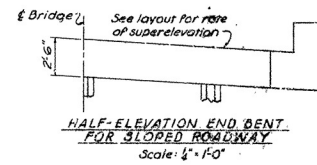
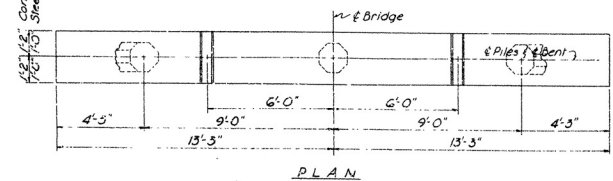
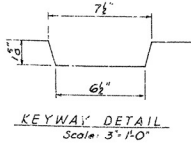
* Use with Conc Piles
** Use with Steel Piles

GENERAL NOTES

All concrete to be Class "B" and shall be poured in the dry. All exposed corners to be chamfered 3/4" unless otherwise noted.
Reinforcing steel to be deformed bars of intermediate or hard grade. Shop lists and bending diagrams are to be submitted for approval before fabrication.
All piling shall be driven to minimum capacity of 36 tons per pile. Piling shall be either 12 BP 53 steel bearing piles, or 18" octagonal precast concrete piles as shown on the layout.

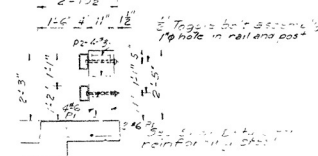
For details of Standards 28" RC Slab Span see Drawing No. 15000.

DETAILS OF
STANDARD PILE BENTS
FOR 25'-0" R.C. SLAB SPANS (WITH)
24'-0" CLEAR RDWY. 1'-6" CURBS
STATE ROUTE 13 SEC. 10
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: RWM DATE: 2-4-65
CHECKED BY: DEK DATE: 2-5-65
BRIDGE NO. 3988 DRAWING NO. 15094



ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
PROJECT NO. 67-5
SHEET NO. 14

Provide splice of both longitudinal rail members to limit continuous length to 50' maximum. Minimum continuous length shall be such as to provide attachment to at least 3 posts.

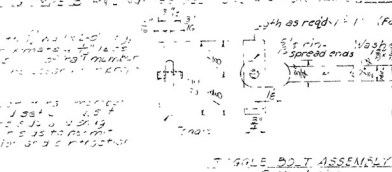


SECTION A-A
TYPE C RAILING

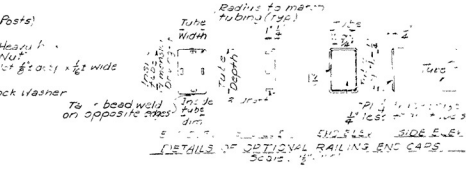
CONCRETE NOTES

Concrete for posts shall be Class A, exposed corners shall be chamfered 1/4\"/>

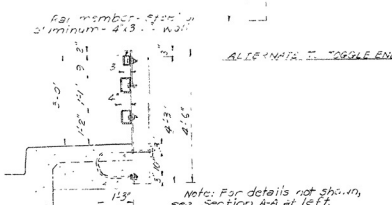
SECTION A-A: SIDEWALK RAILING
METAL POST, SIDE MOUNTED
TYPE E RAILING



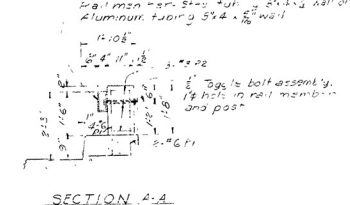
SECTION A-A: SIDEWALK RAILING
METAL POST, SIDE MOUNTED
TYPE E RAILING



SECTION A-A
TYPE C RAILING
FOR SHOULDER WITH BRIDGES



SECTION A-A: SIDEWALK RAILING
METAL POST, SIDE MOUNTED
TYPE E RAILING

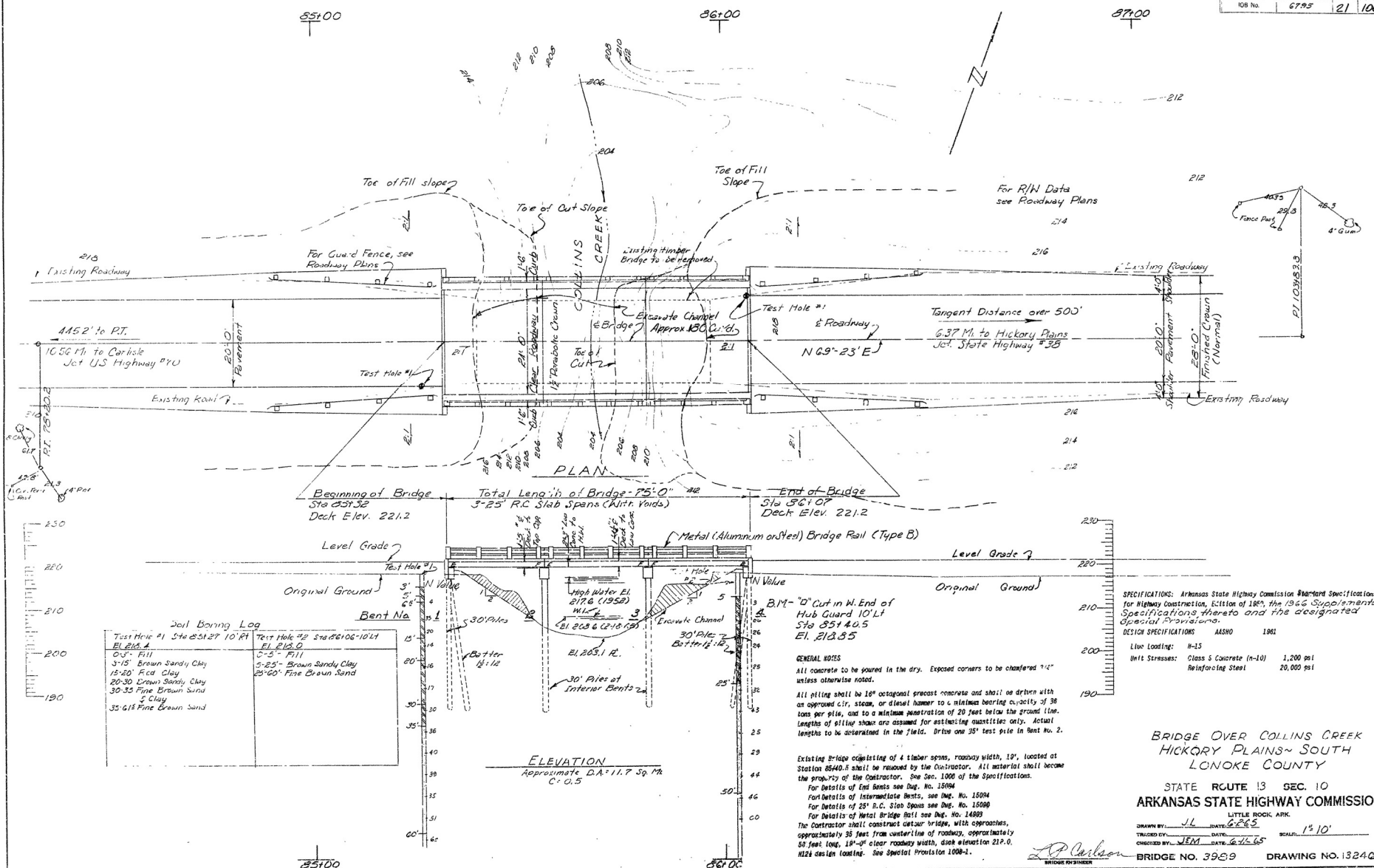


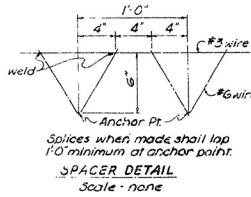
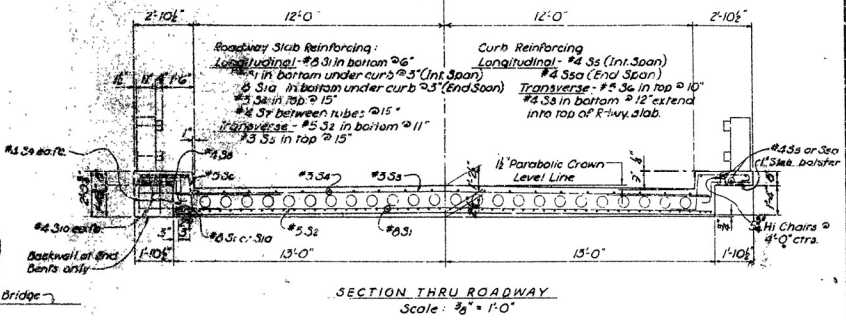
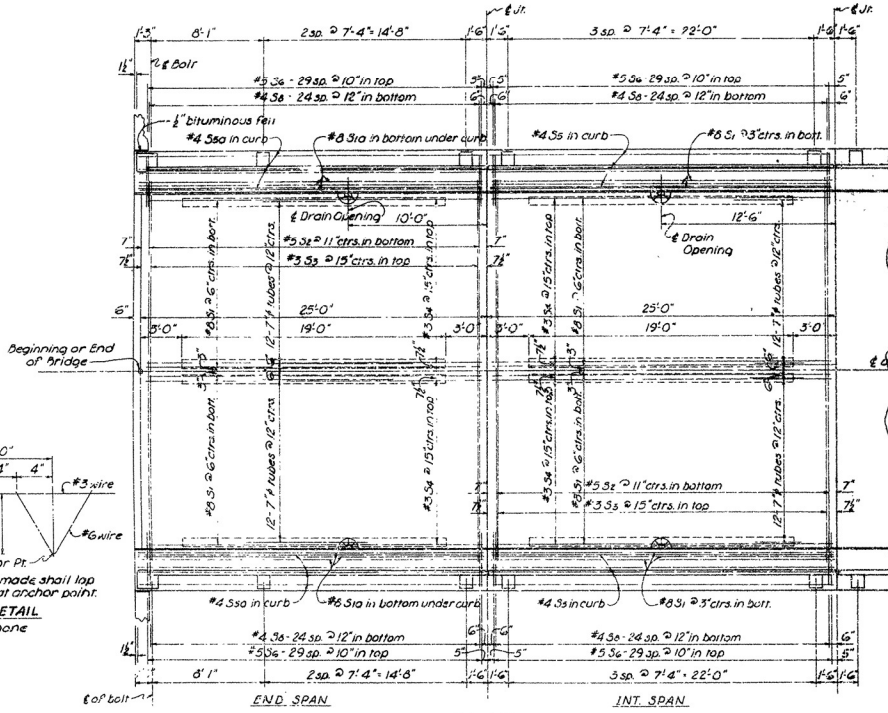
SECTION A-A
TYPE C RAILING
FOR SHOULDER WITH BRIDGES

- Aluminum Alloy:
 - Tubing: 6061-T6 or 6062-T6; ASTM Specification B 221
 - Extrusions: 6061-T6 or 6062-T6; ASTM Specification B 221
 - Rolling End Caps: 6061-T6 or 6062-T6; ASTM Specification B 221
- Steel:
 - Tubing, Posts and Accessories: ASTM Specification A 133 or ASTM Specification A 133, Grade B, or ASTM Specification A 133, Grade C
 - Rolling End Caps: Carbon Steel castings conforming to ASTM Specification A 133, Grade B or 6061-T6 or 6062-T6
 - Steel rail members shall be galvanized in accordance with ASTM Specification A 133, Grade B or 6061-T6 or 6062-T6
 - Anchor Bolts and Toggle Bolts: Anchor bolts and toggle bolts shall be the heavy steel conforming to ASTM Specification, Description A 193 or A 193, Grade B
 - Toggle Material: Aluminum Alloy 6061-T6 or 6062-T6; ASTM Specification B 221 or A 133, Grade B galvanized in accordance with ASTM A 133, or stainless steel
 - Spliced Self Screws: Aluminum Alloy 6061-T6 or 6062-T6; ASTM Specification B 221 or stainless steel; ASTM Specification A 193 or A 193, Grade B, or ASTM A 133, Grade B
 - Threads: Threads on bolts, screws and nuts shall conform to American Standard coarse Series, Class 2 fit, ASA Specification B1.1
 - Washers: Aluminum Alloy A 133, Grade B; ASTM Specification A 193 or A 193, Grade B, galvanized in accordance with ASTM Specification A 133, Grade B
 - Longitudinal Post Members shall be of sufficient length to provide attachment to at least three posts.
 - Bridge railing including posts, reinforcing steel, and fasteners shall be paid for at the contract unit price per linear foot bid for railing.
 - Shop drawings showing details of railing shall be submitted and approved before fabrication is begun.
 - Fixing of aluminum and galvanized steel parts in place shall be done in accordance with the applicable material specifications.
 - Stainless Steel, ASTM A 193, Type 304 or 304L minimum ultimate strength of 100,000 psi shall be used in all applications where material is used in excess of 1/4\"/>
 - Carbon steel fastener material of special quality, aluminum fastener material with special Precision 6061-T6, may be used with aluminum rail members in lieu of the applicable material specifications.

DETAILS OF
METAL RAILING
TYPE C, D, E
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: H.B. DATE: 7-2-64
CHECKED BY: J.M.H. DATE: 7-2-64
BRIDGE NO. DRAWING NO. 14-205
F10-51 10-10-132-500

Revision
1. Change from 1/2\"/>



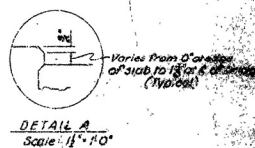
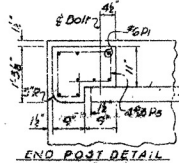
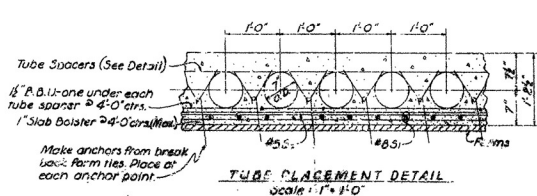
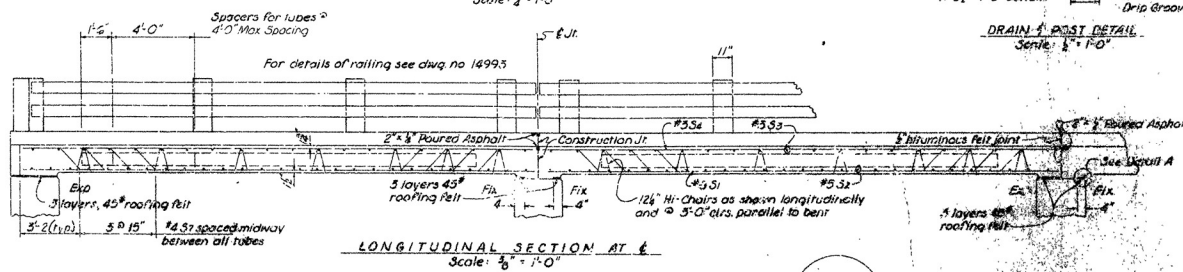
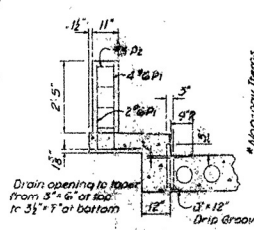


BAR LIST

AX	#	Size	Pin	No. Reqd.	End	Int.	Length
5r	8	3/8"	3/8"	48	24	24'-0"	
5a	8	3/8"	3/8"	6	-	25'-2"	
5e	5	3/8"	27	27	25'-0"		
5s	3	24"	20	20	24'-0"		
5d	3	3/8"	20	20	24'-0"		
5a	4	3/8"	-	8	25'-2"		
5e	5	3/8"	60	60	3'-0"		
5r	8	1/2"	18	18	2'-10"		
5s	4	1/2"	50	50	7'-6"		
5d	4	3/8"	12	-	1'-9"		
5a	4	3/8"	12	-	2'-6"		
5r	6	1/2"	52	48	3'-11"		
5e	3	1/2"	24	32	3'-1"		
5d	3	1/2"	8	-	4'-9"		

Bending Diagram

Diagram showing the bending diagram for the bars, including dimensions and labels for various components like #5 bars, #4 bars, and #3 bars.



GENERAL NOTES

All concrete to be Class B. All exposed corners to be chamfered 3/8" unless otherwise noted.

Reinforcing steel to be deformed, 1/2" of intermediate or hard grade. Shop lists and bending diagrams must be submitted and approved before fabrication is begun.

All cylindrical tubes used to form voids shall be of moisture protected, laminated type construction, minimum thickness 0.002, and shall be furnished complete with end closures.

All reinforcing steel and floor slabs shall be accurately located in the forms and firmly held in place by means of steel wire supports and spacers for tubes of a sufficient number and size to prevent displacement during the course of construction, but in no case of lesser design than that shown.

Wire supports for reinforcing bars will not be paid for directly, but will be considered subsidiary to the "Reinforcing Bars".

Tubes for forming voids and wire supports and spacers for tubes shall not be considered for payment; they are considered subsidiary to the item "Class B Concrete".

Shop lists and diagrams of wire supports and spacers for tubes shall be submitted for approval before fabrication is begun.

Reinforcing steel, aluminum joists, and poured asphalt joists shall be measured and paid for as Class B Concrete.

For details of Metal Bridge Rating see Day, No. 1493, Bridge Rating - Standard Specifications for Highway Bridges.

DETAILS OF STANDARD

25'-0" R.C. SLAB SPANS (WITH VOIDS)

24'-0" CLEAR RDWY. 1'-6" CURB

STATE ROUTE 13 SEC. 10

ARKANSAS STATE HIGHWAY COMMISSION

BRIDGE NO. 3939

DRAWING NO. 15090