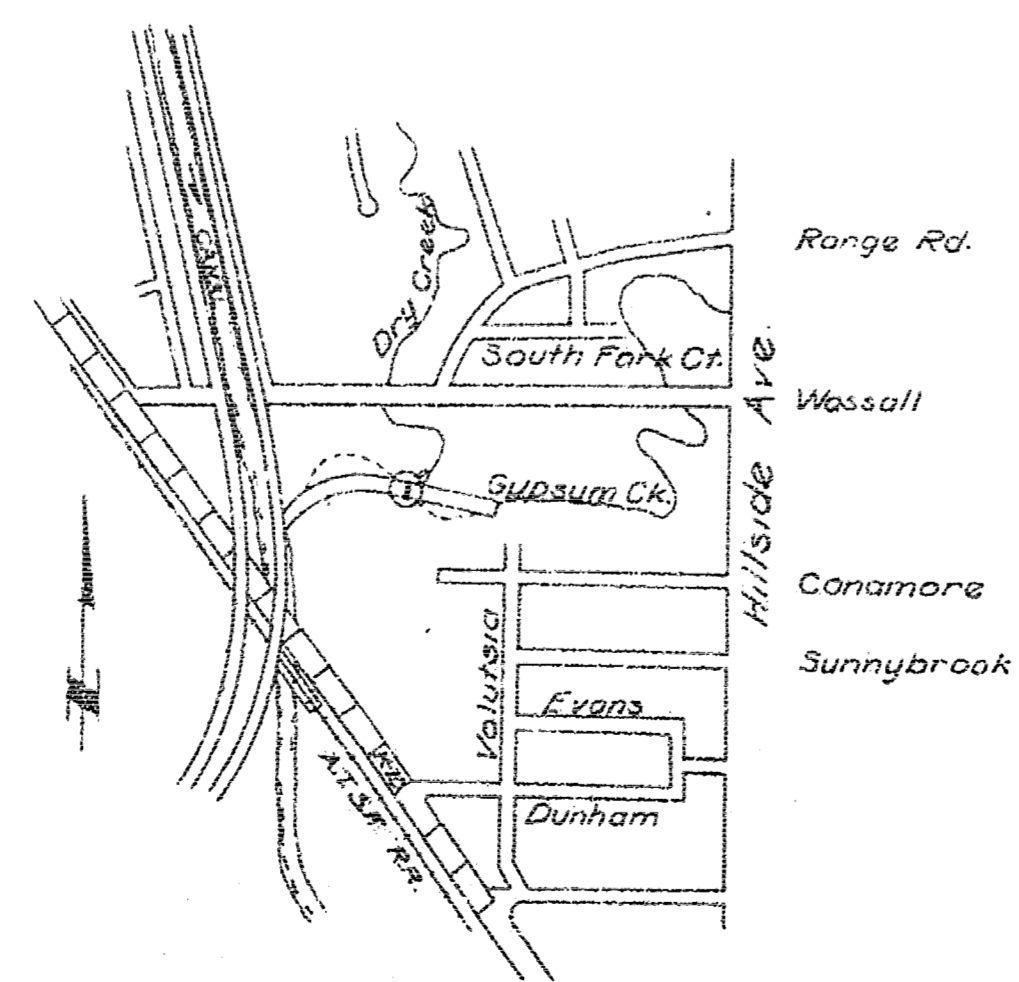
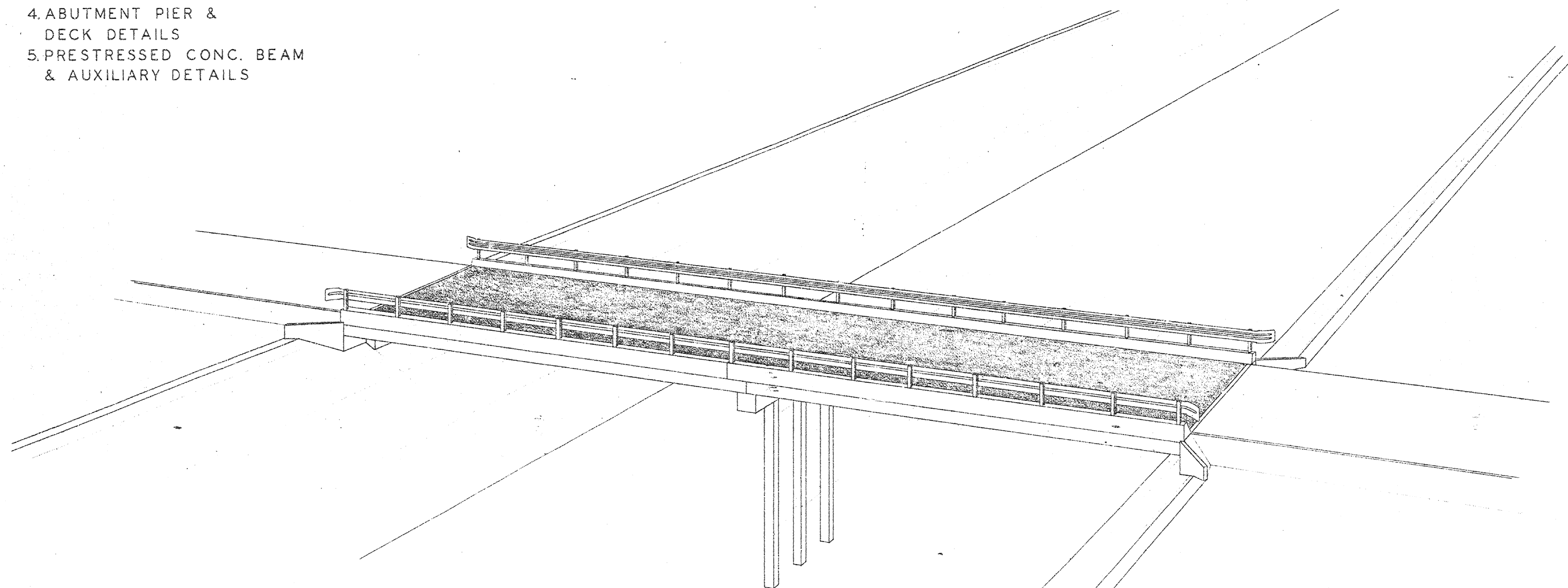


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  - 2. PLAN & PROFILE
  - 3. CONSTRUCTION LAYOUT
  - 4. ABUTMENT PIER & DECK DETAILS
  - 5. PRESTRESSED CONC. BEAM & AUXILIARY DETAILS

# BRIDGE AT JOYLAND HILLSIDE PARK



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APPROVED FOR JOYLAND HILLSIDE PARK INC.

NAME: Harold S. Ottaway  
 TITLE: Secy. Treasurer  
 DATE: January 9, 1967

CITY OF WICHITA, KANSAS  
 DEPARTMENT OF PUBLIC WORKS  
 MAINTENANCE DIVISION

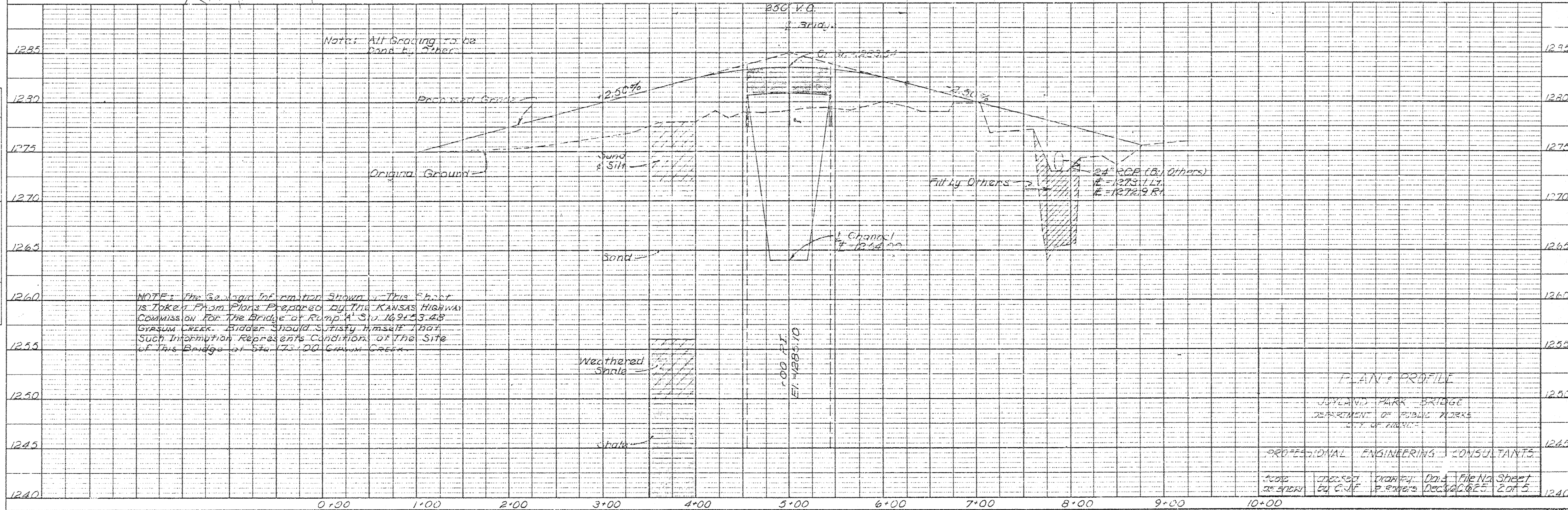
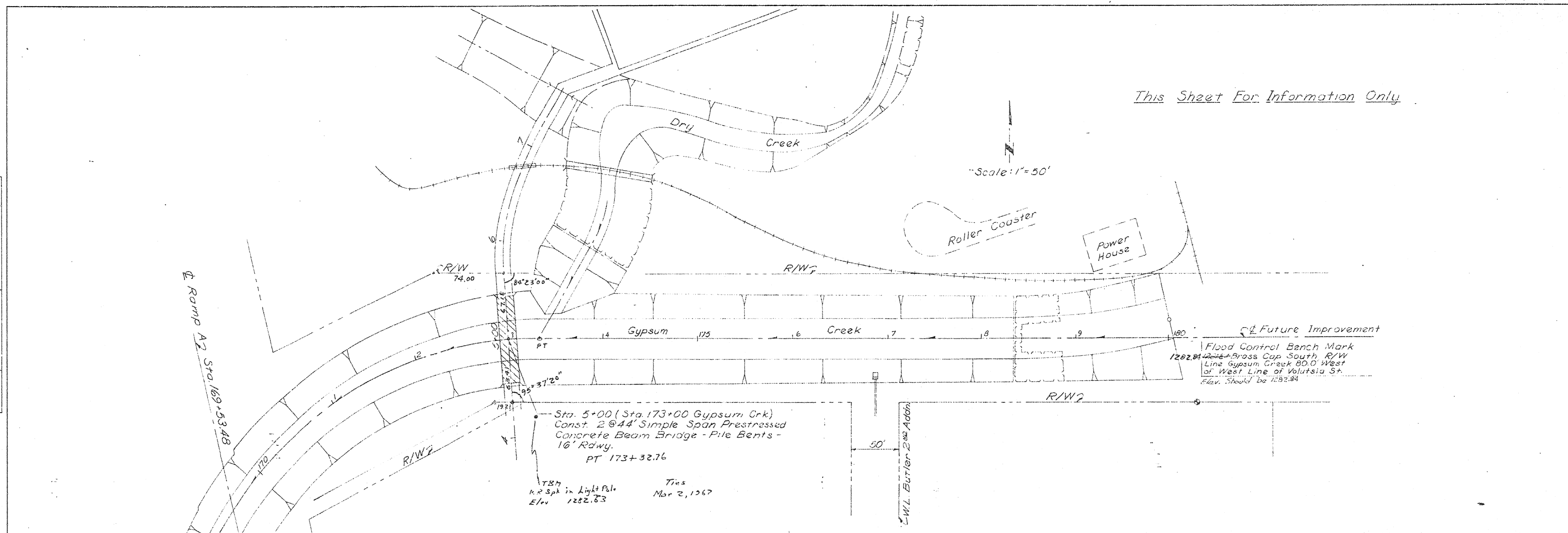
PROFESSIONAL ENGINEERING CONSULTANTS

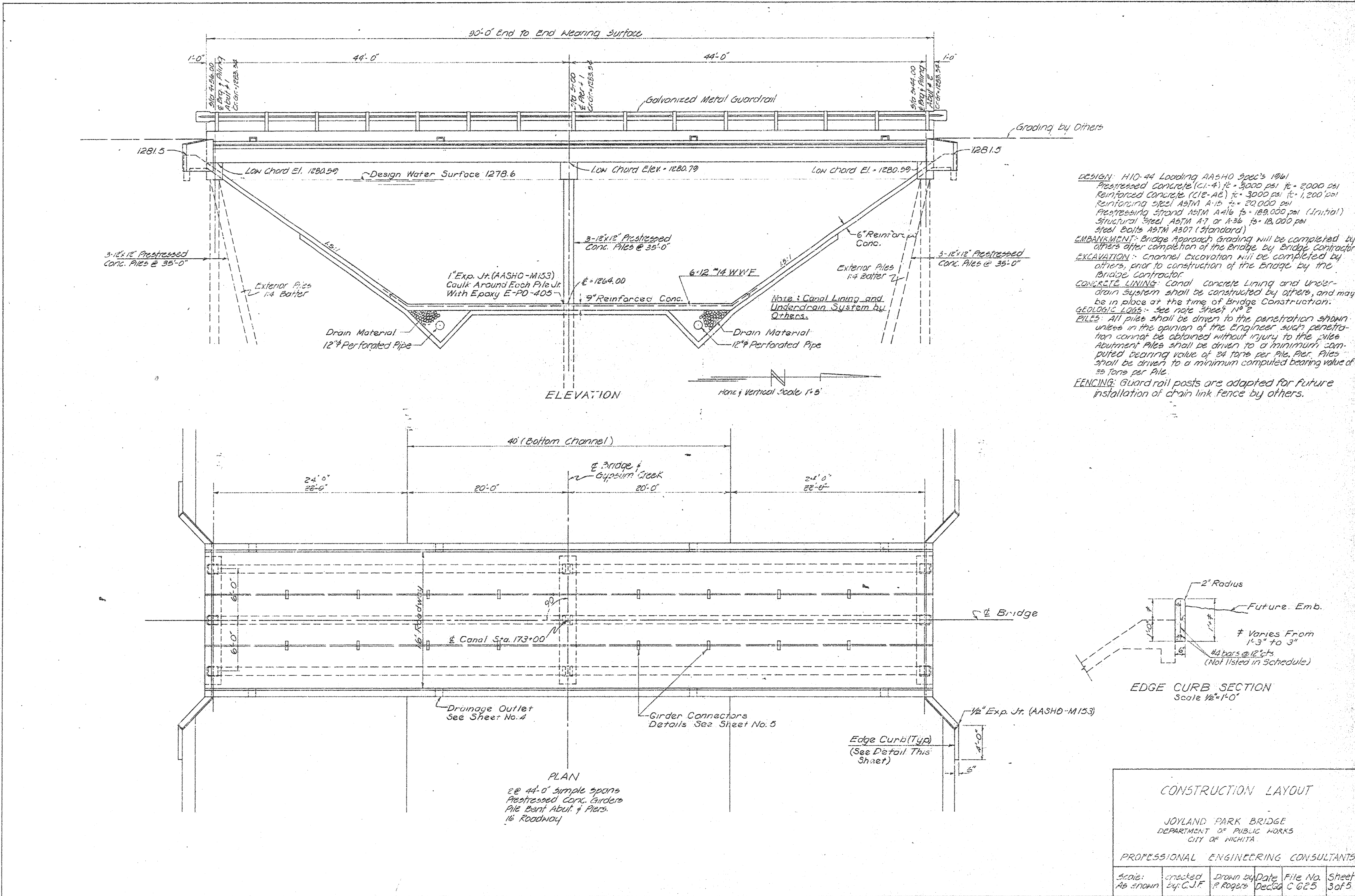
WICHITA, KANSAS

1966

DATE	BY
12/29/68	W. J. B. / J. S. B.
PROJECT	BRIDGE
NO. 169-0348	
FILE NO.	
169-0348	

DATE	BY
12/29/68	W. J. B. / J. S. B.
PROJECT	BRIDGE
NO. 169-0348	
FILE NO.	
169-0348	





SPECIFICATIONS: H10-44 Loading AASHTO Spec's 1961  
 Prestressed Concrete (CI-4) f<sub>c</sub> = 5000 psi f<sub>t</sub> = 2000 psi  
 Reinforced Concrete (CI-4E) f<sub>c</sub> = 3000 psi f<sub>t</sub> = 1,200 psi  
 Reinforcing Steel ASTM A108 f<sub>y</sub> = 20,000 psi  
 Prestressing Strand ASTM A416 f<sub>p</sub> = 189,000 psi (Initial)  
 Structural Steel ASTM A7 or A36 f<sub>y</sub> = 18,000 psi  
 Steel Bolts ASTM A307 (Standard)  
 EMBANKMENT: Bridge Approach Grading will be completed by others after completion of the bridge by Bridge Contractor.  
 EXCAVATION: Channel Excavation will be completed by others, prior to construction of the bridge by the Bridge Contractor.  
 CONCRETE LINING: Canal concrete lining and under-drain system shall be constructed by others, and may be in place at the time of bridge construction.  
 GEOTECHNICAL: see note sheet 1192  
 PILES: All piles shall be driven to the penetration shown unless in the opinion of the Engineer such penetration cannot be obtained without injury to the pile. Abutment Piles shall be driven to a minimum computed bearing value of 24 tons per pile. Pier Piles shall be driven to a minimum computed bearing value of 20 tons per pile.  
 FENCING: Guard rail posts are adapted for future installation of chain link fence by others.

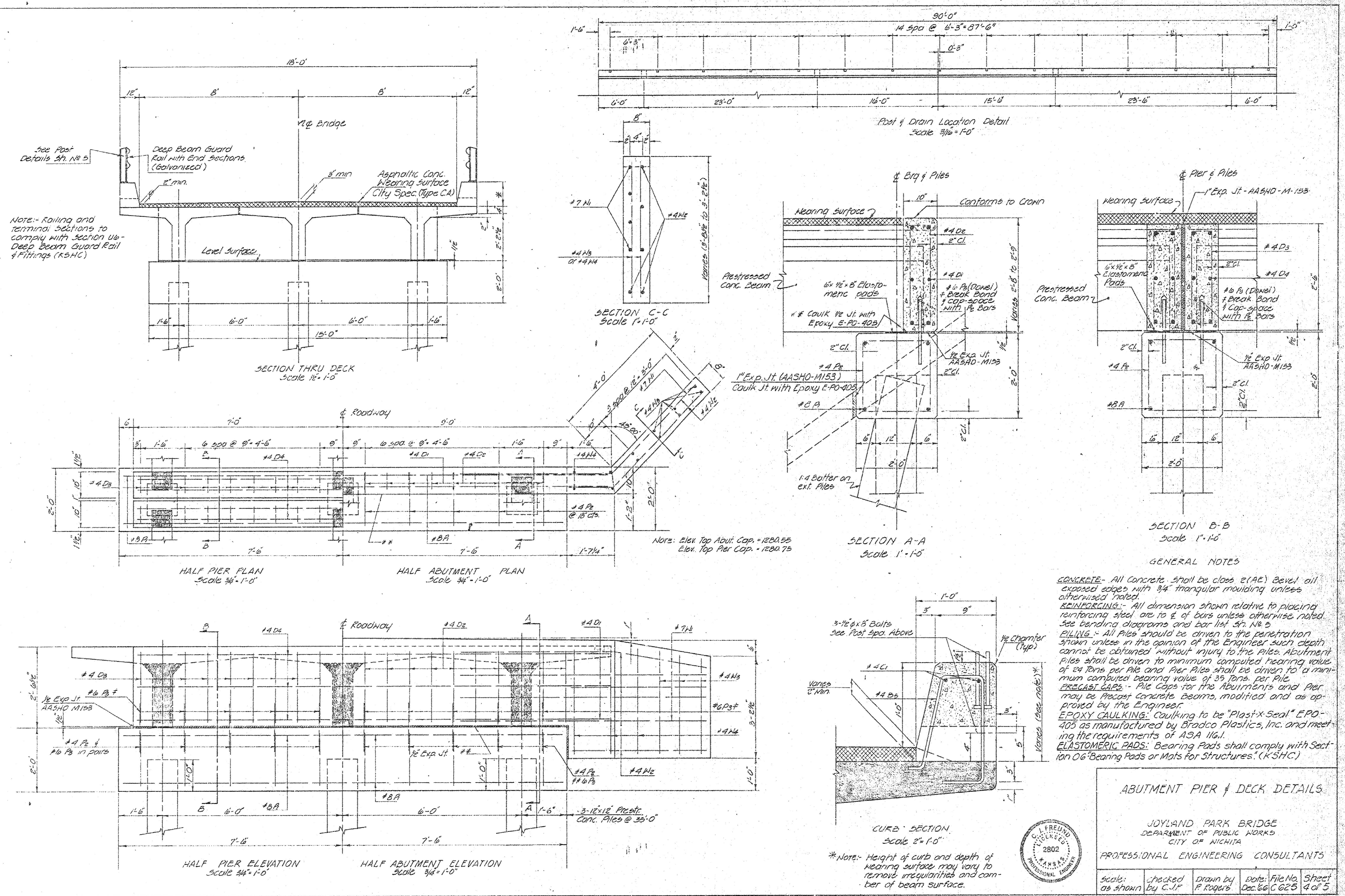
CONSTRUCTION LAYOUT

JOYLAND PARK BRIDGE  
DEPARTMENT OF PUBLIC WORKS  
CITY OF NICHITA

PROFESSIONAL ENGINEERING CONSULTANTS

Scale:	Checked by:	Drawn by:	Date:	File No.:	Sheet:
As shown	C.J.F.	R. Rogers	Dec 22	C 625	3 of 5

Received GFC DEC 29 1968



NOTE: Rolling and terminal sections to comply with section 46 - Deep Beam Guard Rail & Fittings (KSHC)

NOTE: Elev. Top Abut. Cap. = 1200.55  
Elev. Top Pier Cap. = 1200.75

**GENERAL NOTES**

**CONCRETE:** All concrete shall be class 2(AC) Bevel all exposed edges with 3/4" triangular moulding unless otherwise noted.

**REINFORCING:** All dimension shown relative to placing reinforcing steel are to 6" of bars unless otherwise noted. See bending diagrams and bar list 5th No. 5.

**PILING:** All Piles should be driven to the penetration shown unless in the opinion of the Engineer such depth cannot be obtained without injury to the Piles. Abutment Piles shall be driven to minimum computed bearing value of 25 tons per pile and Pier Piles shall be driven to a minimum computed bearing value of 35 tons per pile.

**PRECAST CAPS:** Pier Caps for the Abutments and Pier may be Precast Concrete Beams, modified and as approved by the Engineer.

**EPOXY CAULKING:** Caulking to be "Plast-X Seal" EPO-405 as manufactured by Brodco Plastics, Inc. and meeting the requirements of ASA 116.1.

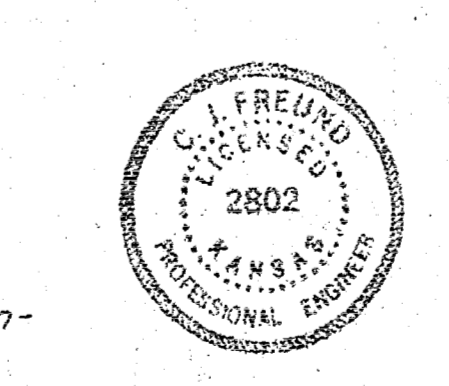
**ELASTOMERIC PADS:** Bearing Pads shall comply with Section 06-Bearing Pads or Mats for Structures. (KSHC)

**ABUTMENT PIER & DECK DETAILS**

JOYLAND PARK BRIDGE  
DEPARTMENT OF PUBLIC WORKS  
CITY OF NICHITA

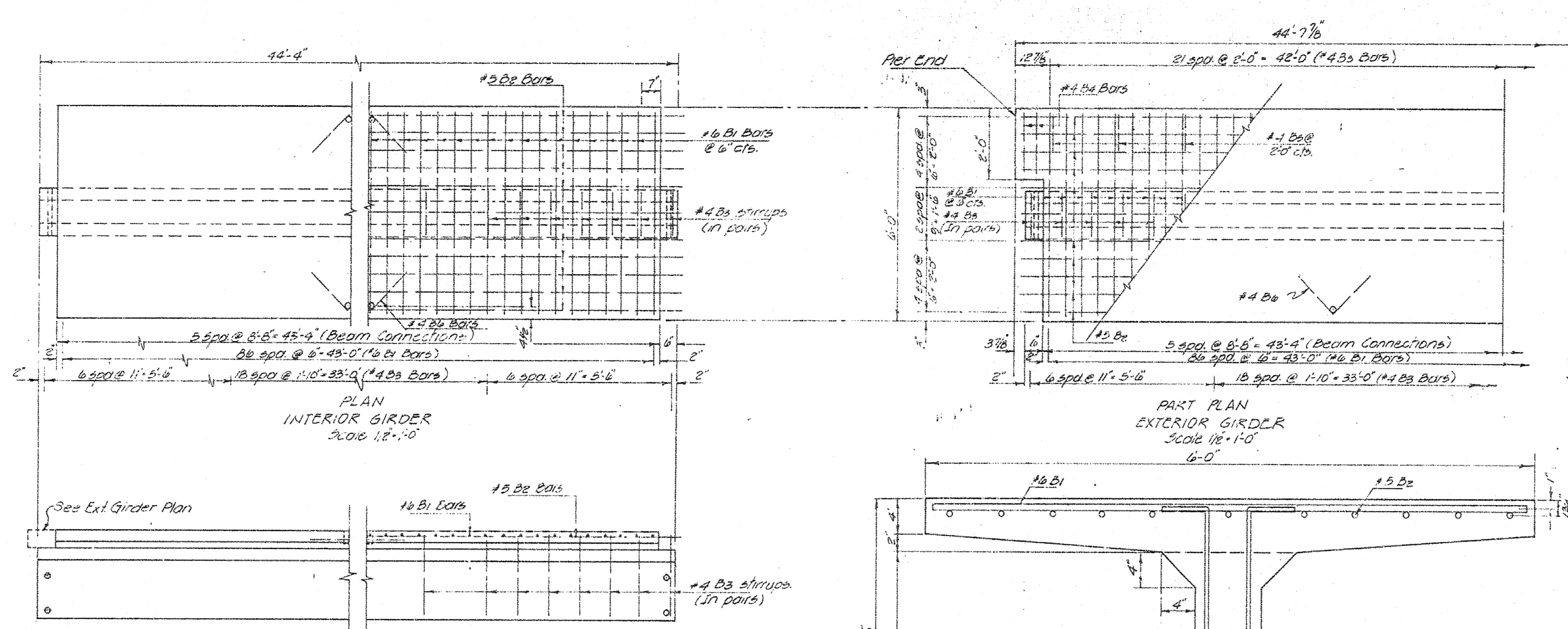
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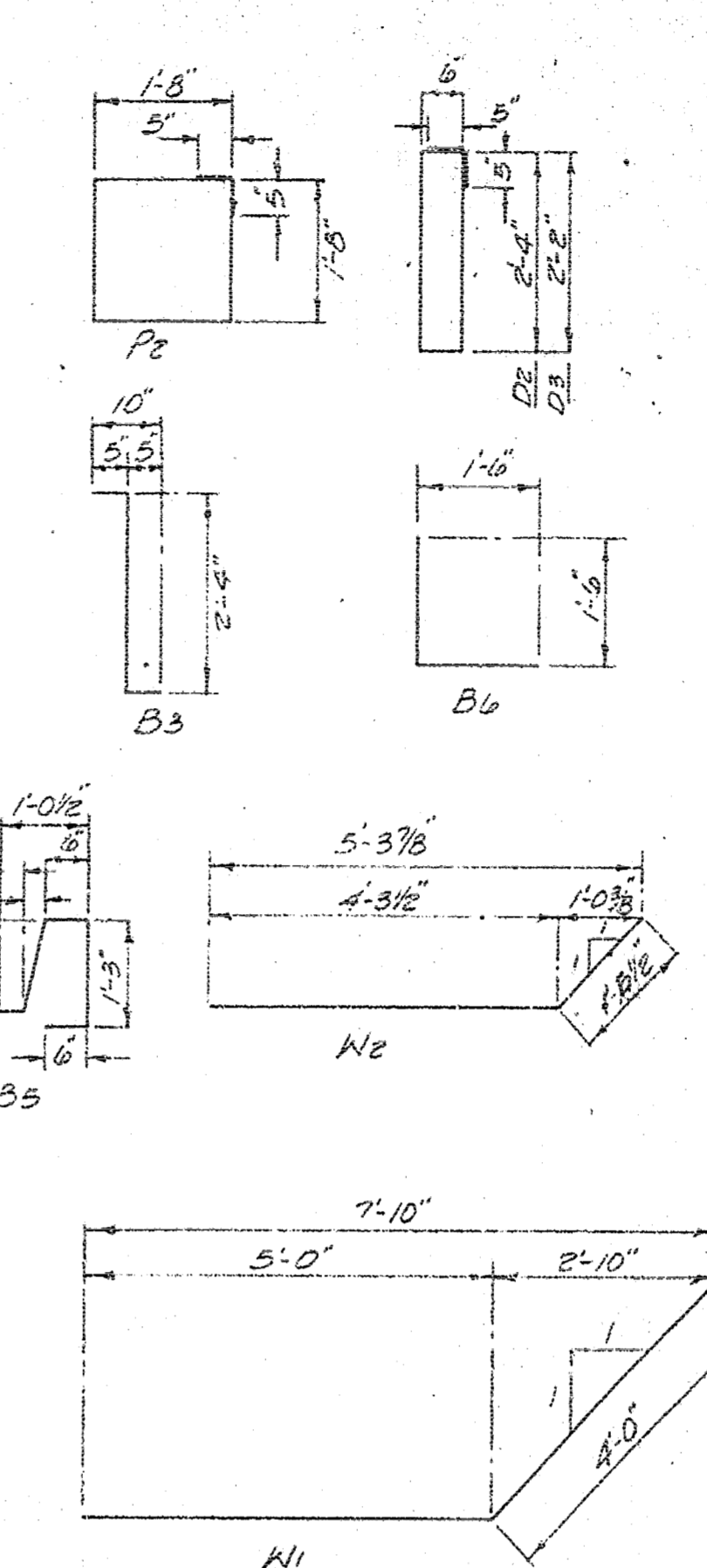
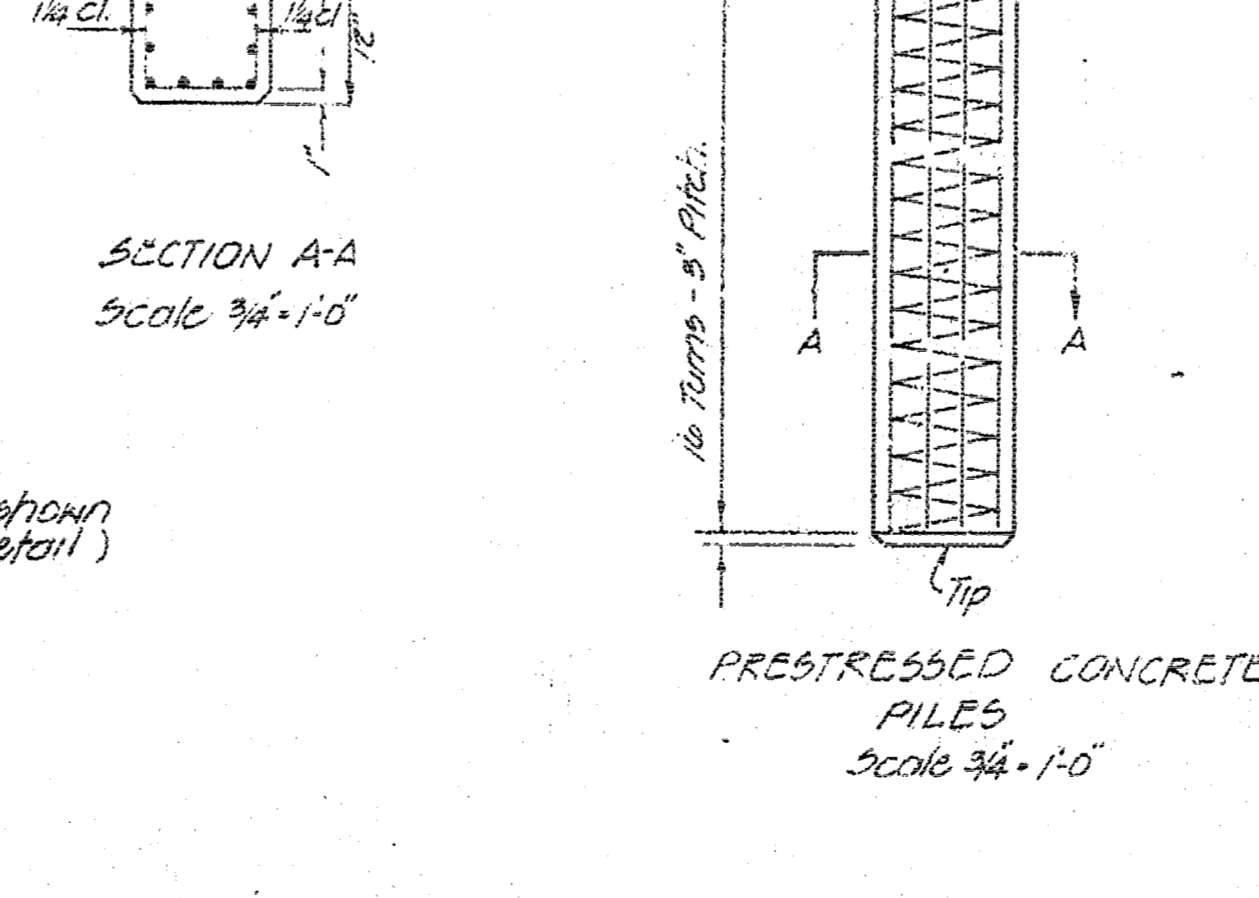
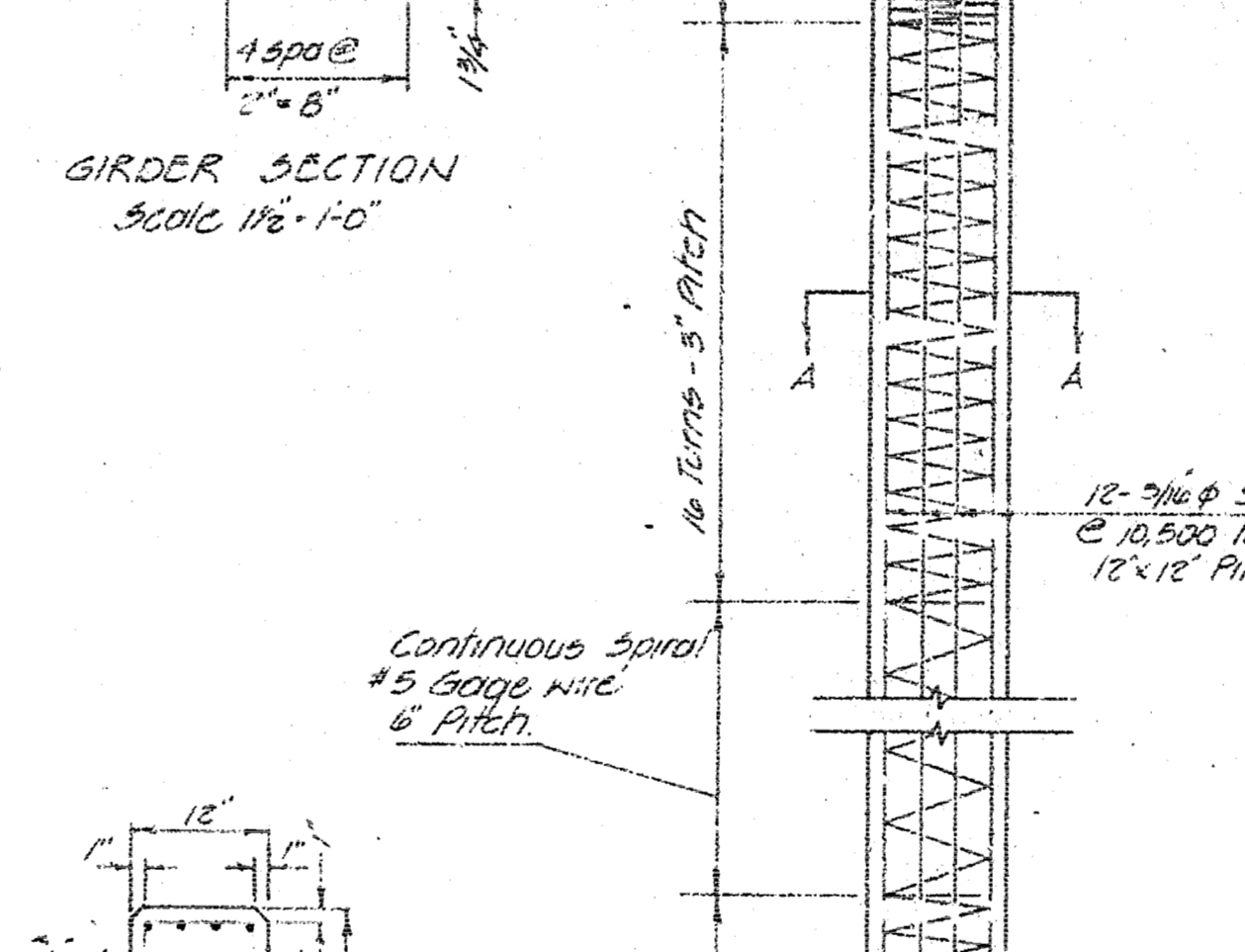
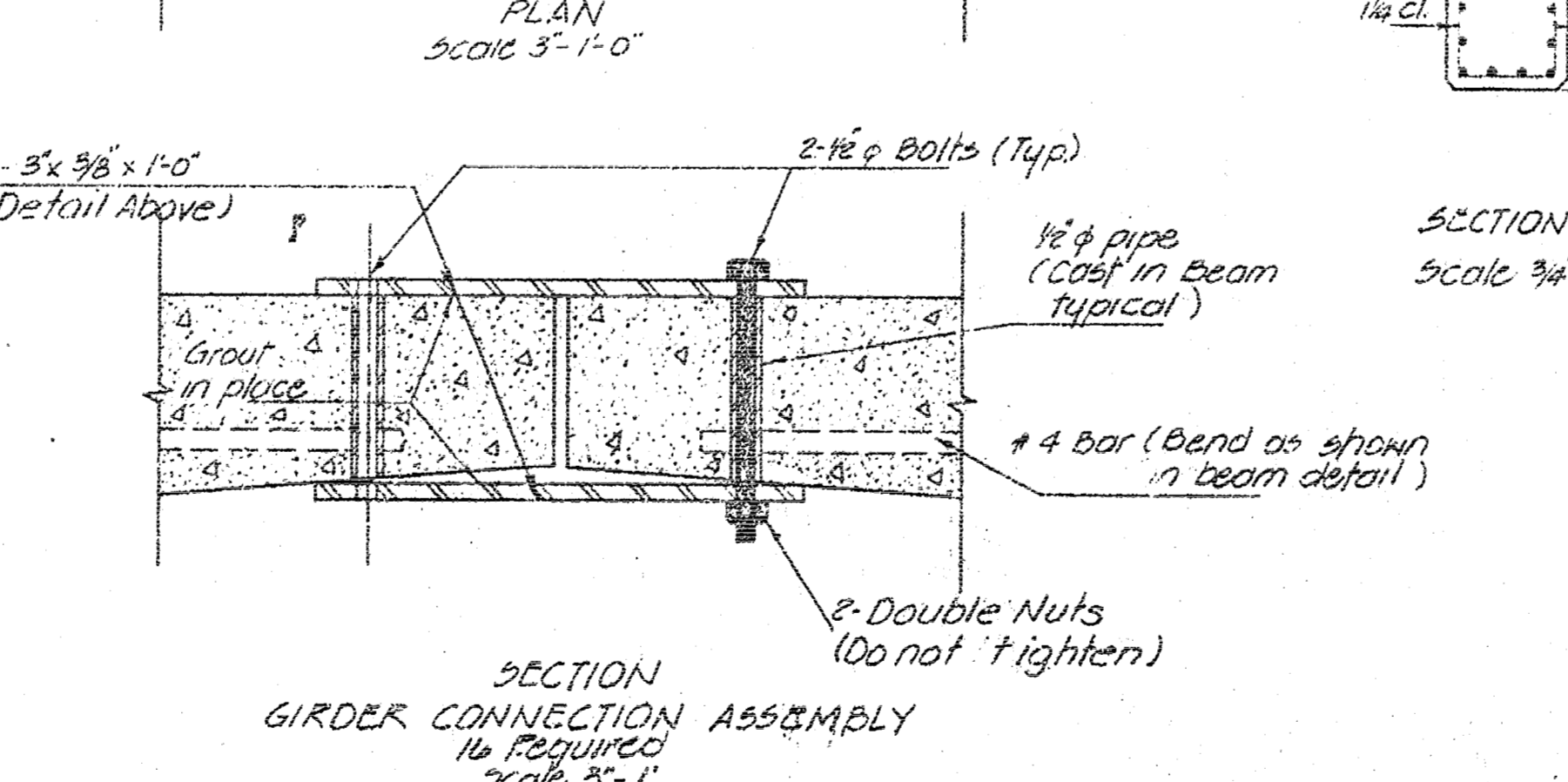
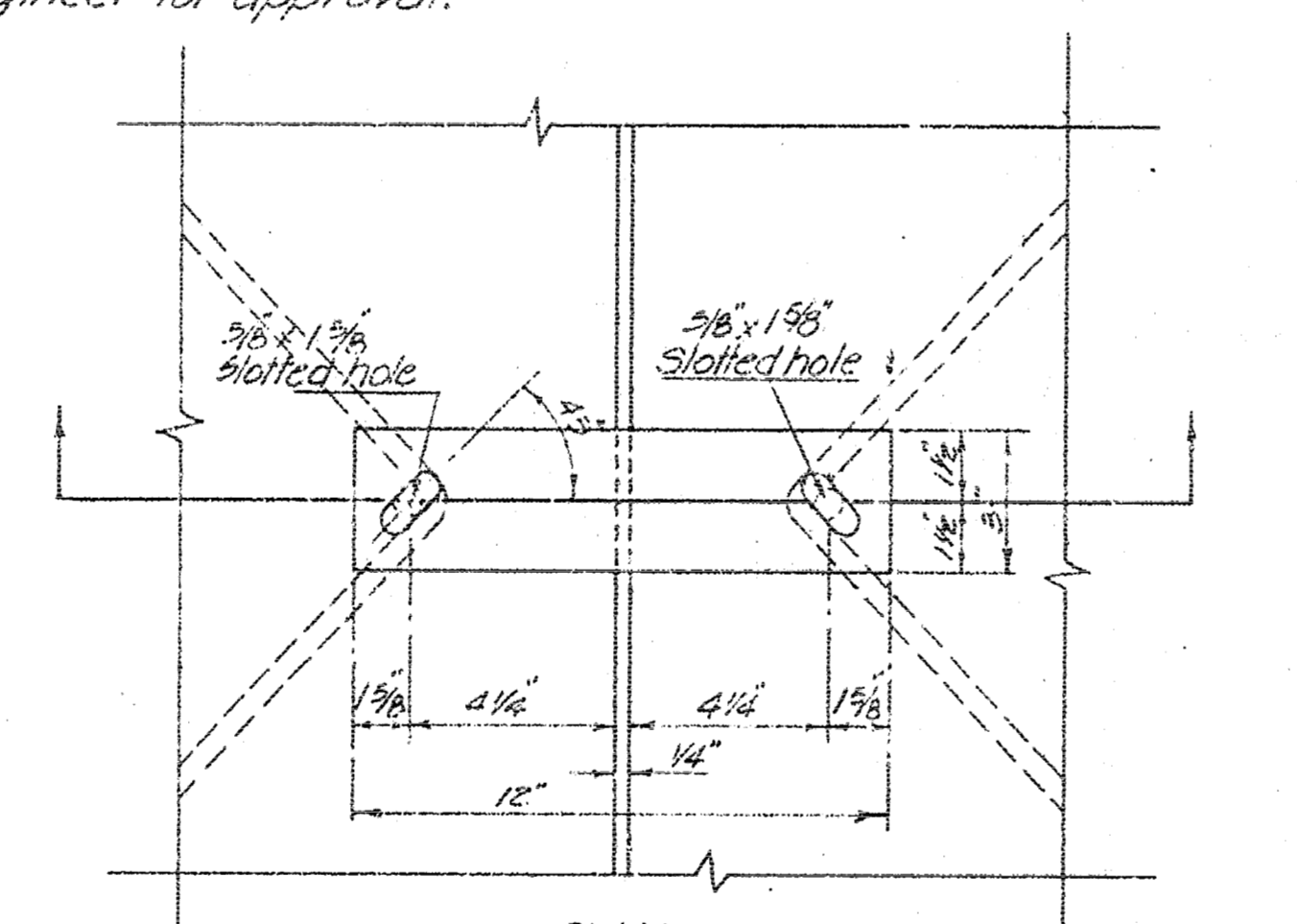
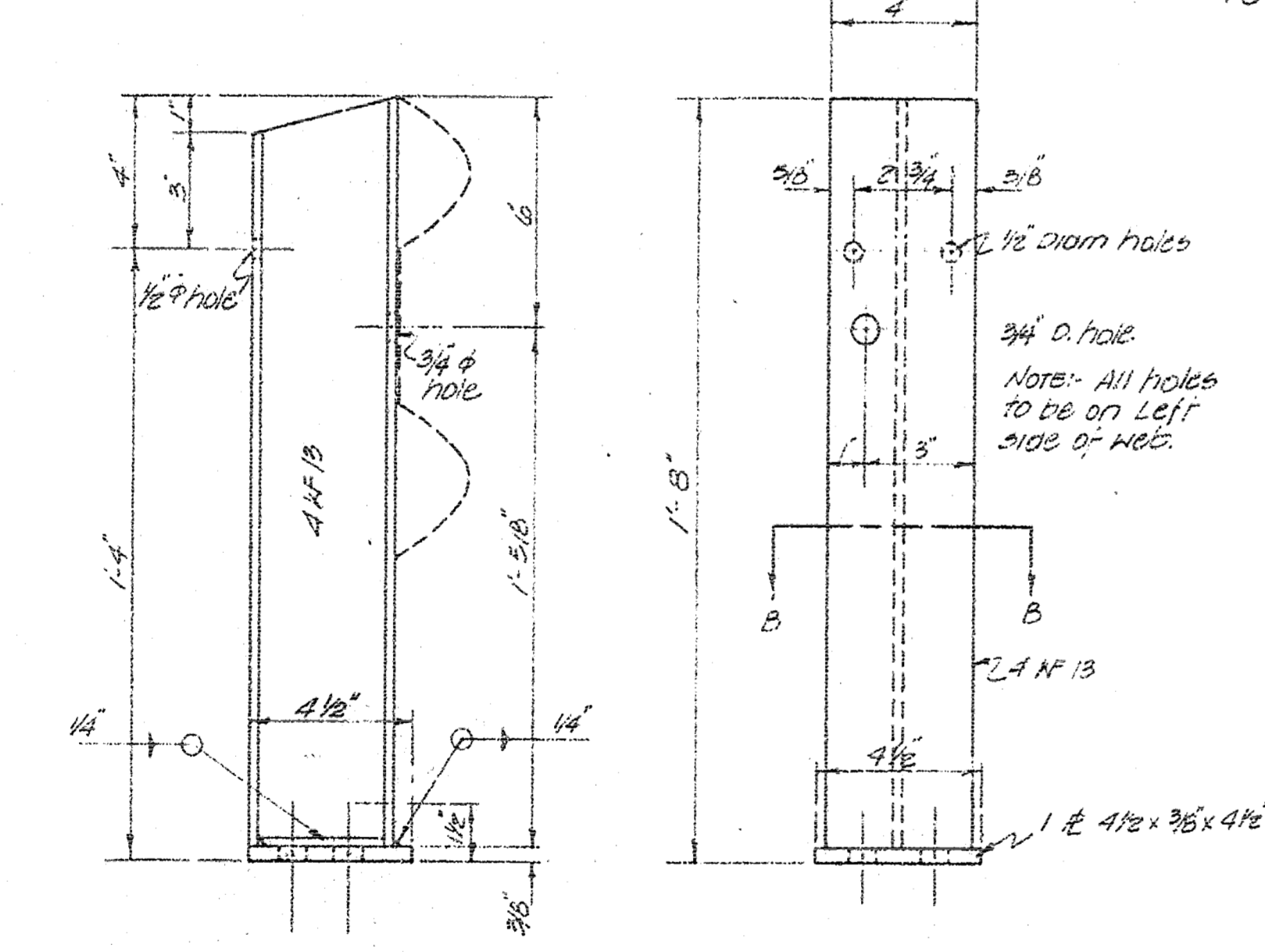


\*Note: Height of curb and depth of hearing surface may vary to remove irregularities and camber of beam surface.

Received DEC 9 1958



Note: Girder details shown are for H-15-44 Loading. Alternate beams of different section may require revision of abutment, pier and diaphragm dimensions, along with the number of bearing pads and methods of tying beams together. All quantity changes shall be taken into account when submitted to the Engineer for approval.



REINFORCING STEEL ABUTMENTS - PIER & CURBS			
BAR	NO.	SIZE	LENGTH
A	12	#8	43'-9"
B	30	#4	7'-6"
C	40	#6	1'-6"
D	12	#4	17'-9"
D1	32	#4	8'-6"
D2	32	#4	10'-0"
D3	12	#4	13'-9"
E	10	#7	9'-0"
F	20	#7	5'-9"
G	24	#4	3'-7"
H	24	#4	3'-5"
I	10	#4	22'-10"

REINFORCING STEEL PRESTRESSED BEAMS			
BAR	NO.	SIZE	LENGTH
B1	522	#6	5'-3"
B2	132	#5	23'-0"
B3	372	#4	3'-2"
B4	8	#4	1'-9"
B5	88	#4	3'-8"
B6	32	#4	3'-0"

**GENERAL NOTES**

**CONCRETE:** All concrete shall be class 4. Level all exposed edges with a 1" triangular moulding unless otherwise noted.

**REINFORCING STEEL:** All dimensions shown relative to placing reinforcing steel are to 1/2" of bars unless otherwise noted. All dimensions shown in the bending diagrams are out to out of the bars.

**STEEL STRAND:** Steel strand for prestressed concrete shall conform to Type 270K of the RSCC specifications. Beam strands shall be accurately positioned as shown with an initial load of 4150 lbs.

**CONCRETE STRENGTH:** Concrete strength at the time of transfer of prestressing force to the unit shall be as follows:  
 Prestressed concrete beams - 4000 psi  
 Prestressed concrete piles - 3,000 psi

**STRUCTURAL STEEL:** Structural steel plates and rolled sections shall be ASTM A-7 or ASTM A-36 fabricated to the dimensions and details as shown. All welds to comply with The American Welding Society.

All metal surfaces shall be properly cleaned and receive one shop coat of lead based paint and two applications of Aluminum paint.

**PRESTRESSED CONCRETE BEAMS:** Alternate Prestressed Beams of different section, either prestressed or post-tensioned may be accepted, but should have approval of the Engineer prior to submittal of bids.

**REINFORCING BAR SCHEDULE:** Reinforcing bars listed above are for information only as the spacing shown in the details will determine the final quantity.

**PRESTRESSED CONCRETE BEAM**  
**AUXILIARY DETAILS**  
**JOYLAND PARK BRIDGE**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY OF NICHITA  
 PROFESSIONAL ENGINEERING CONSULTANTS

Scale as noted	Checked by C.J.F.	Drawn by R. Rogers	Date: Dec 66	File No: 6625	Sheet 5 of 5
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DEC 29 1966

