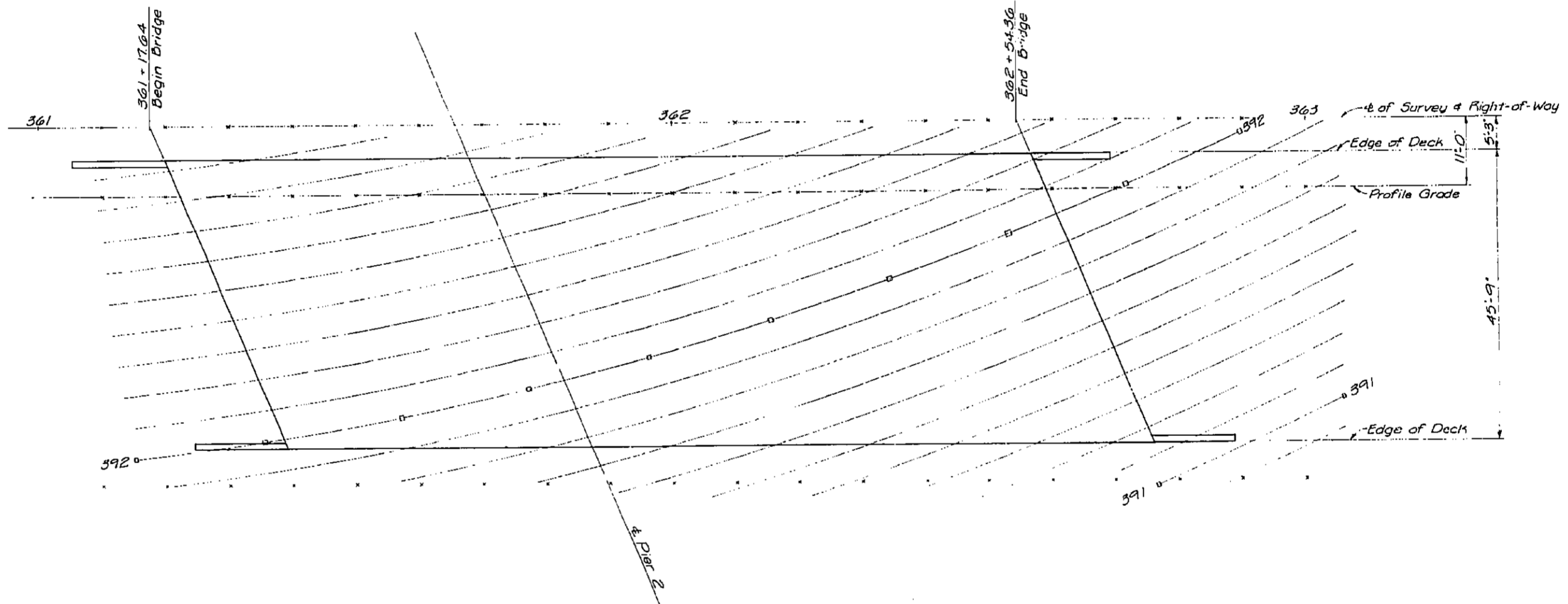
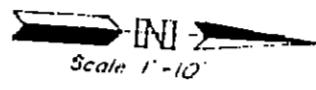
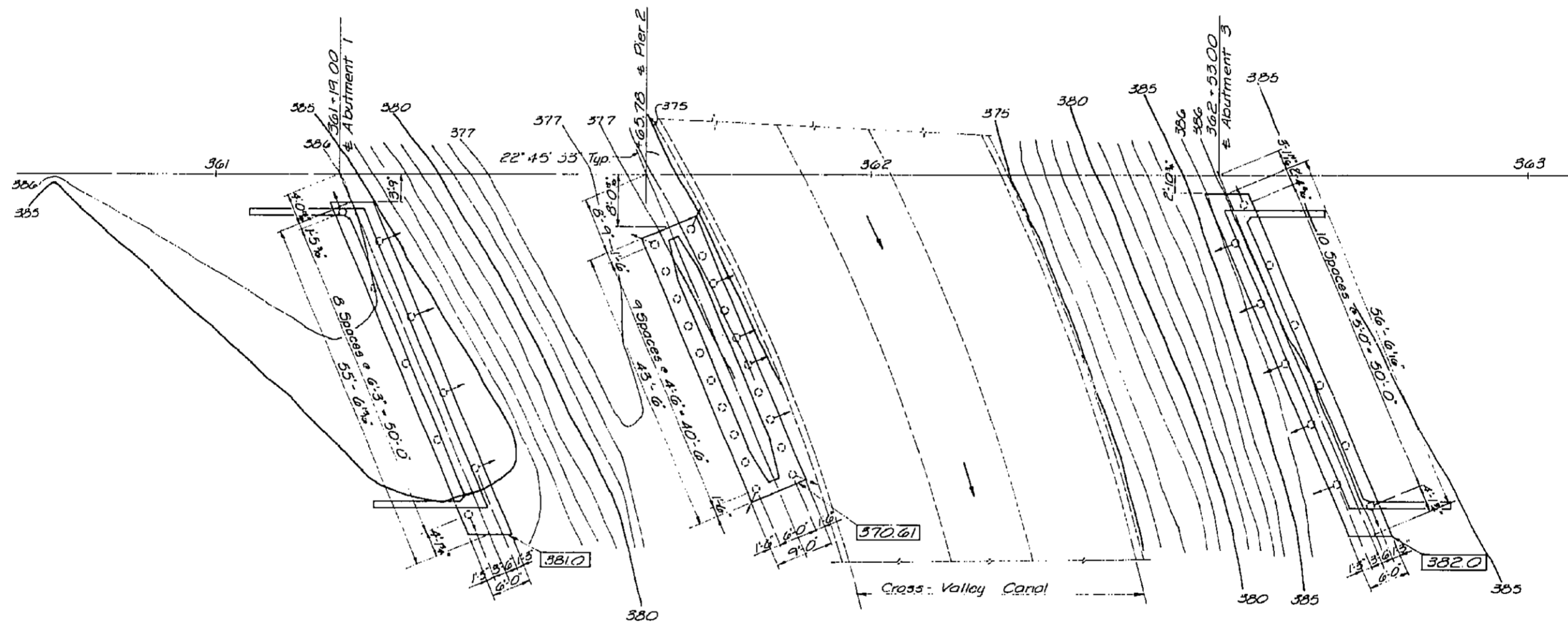
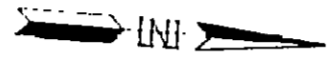


The Bridge As-Built Plans and corresponding BrDR Models are provided for example only and may not represent the modeling techniques used by your agency.



DECK CONTOUR PLAN
1" = 10'

- Notes
- Indicates even foot contours
 - x 10' intervals
 - Contours do not include camber



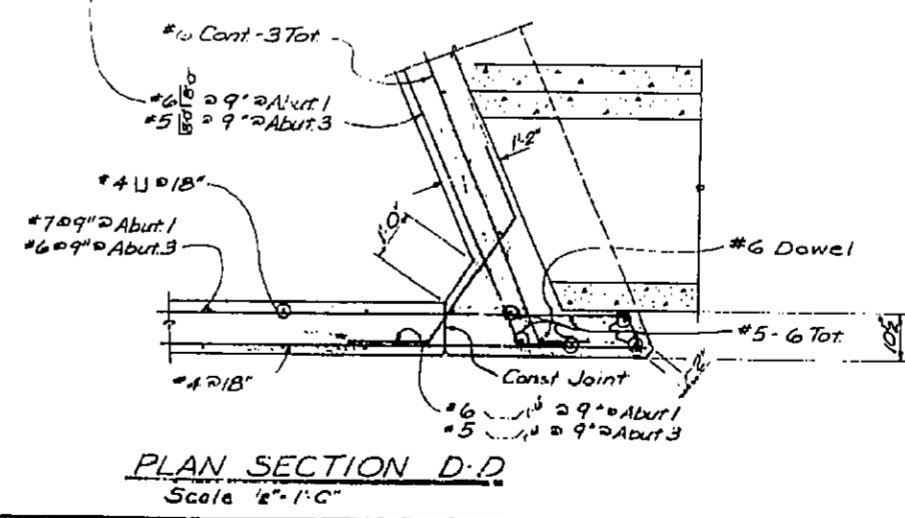
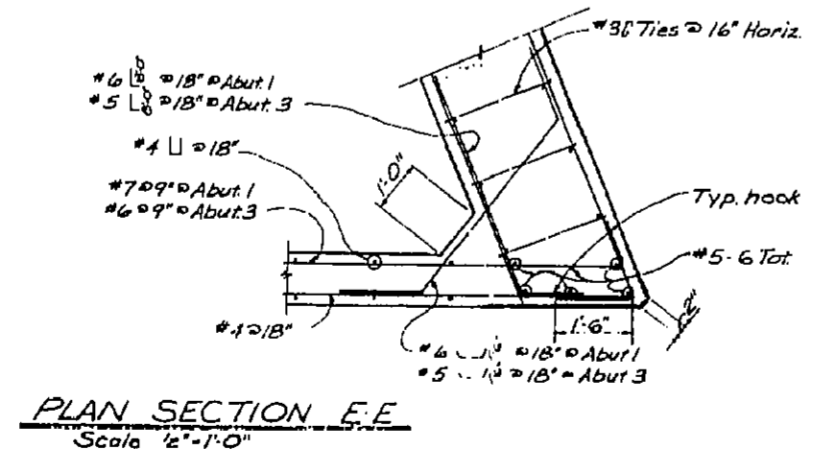
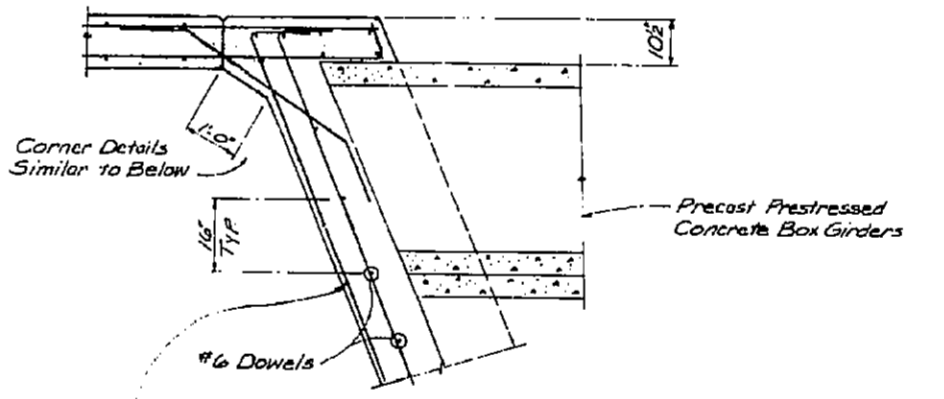
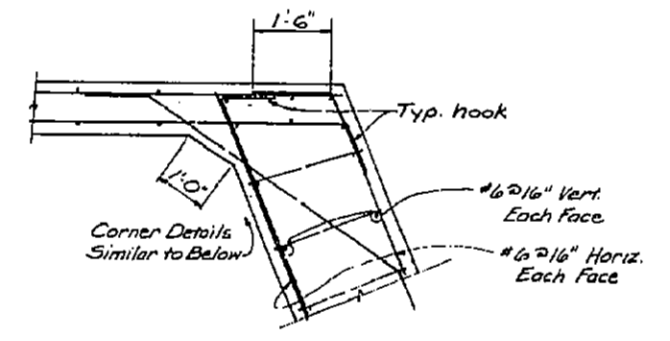
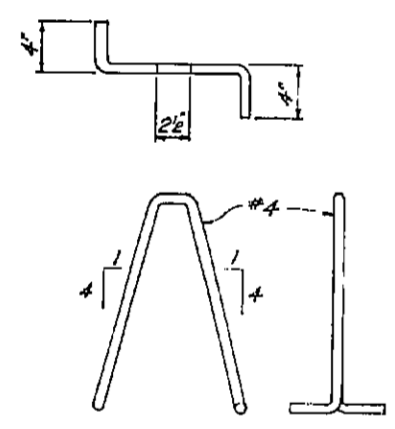
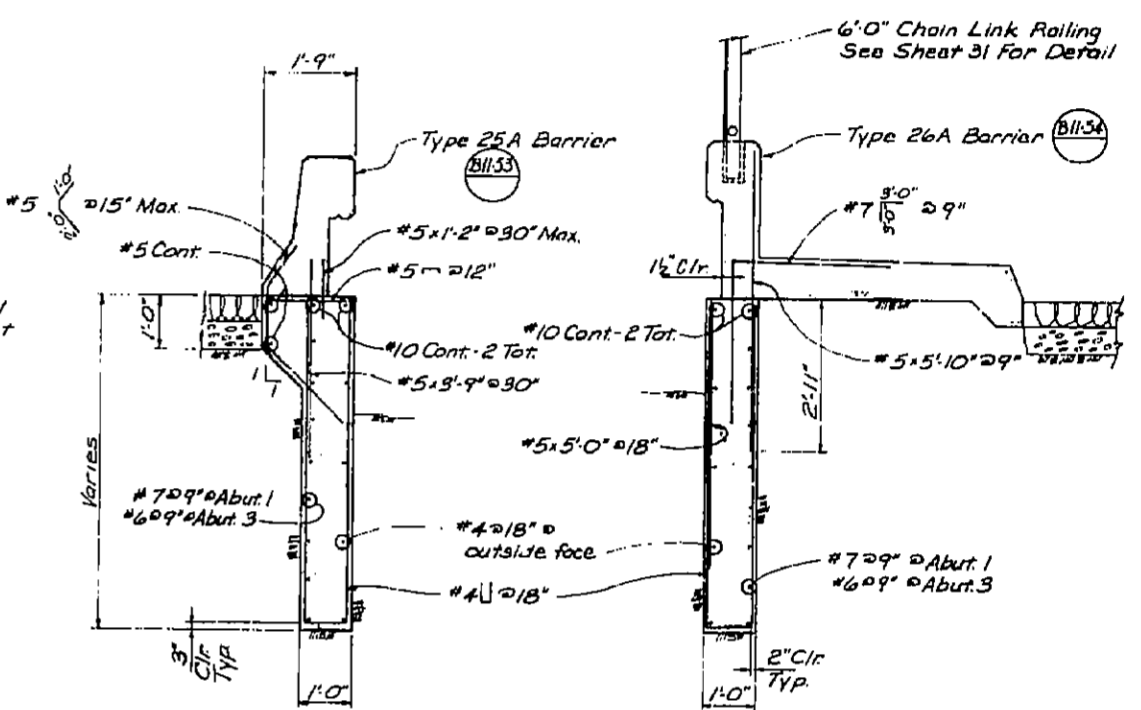
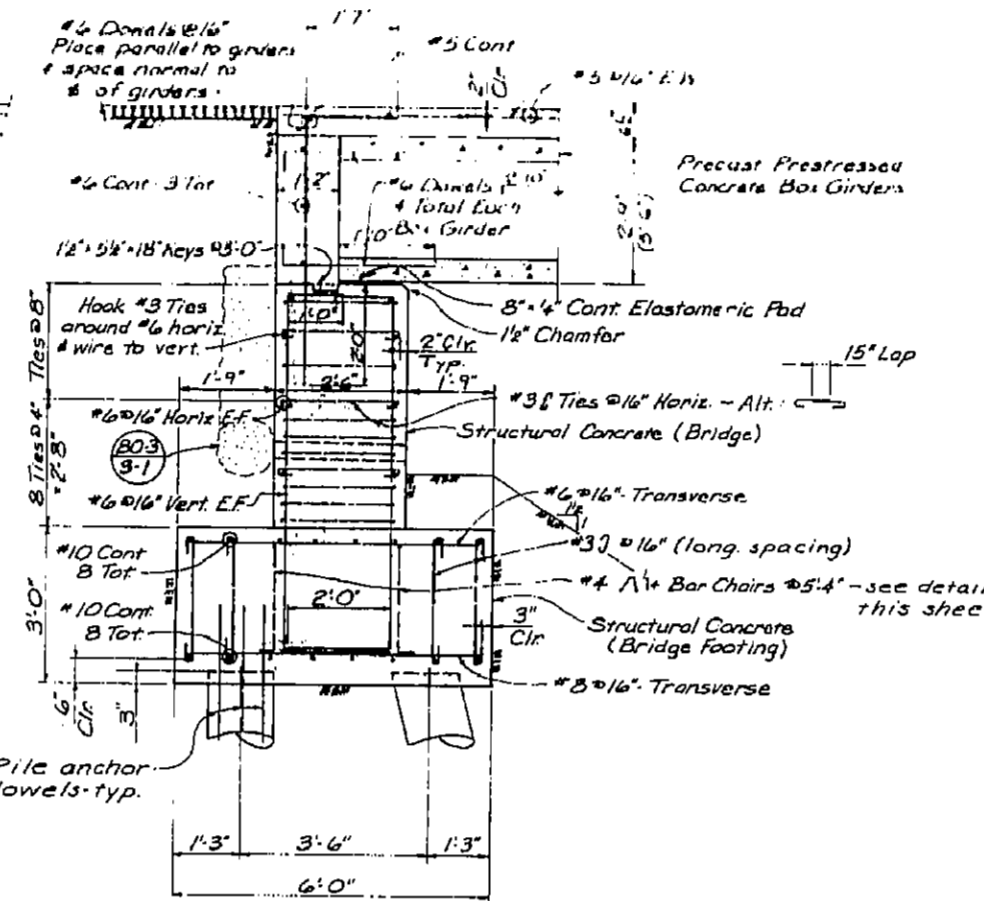
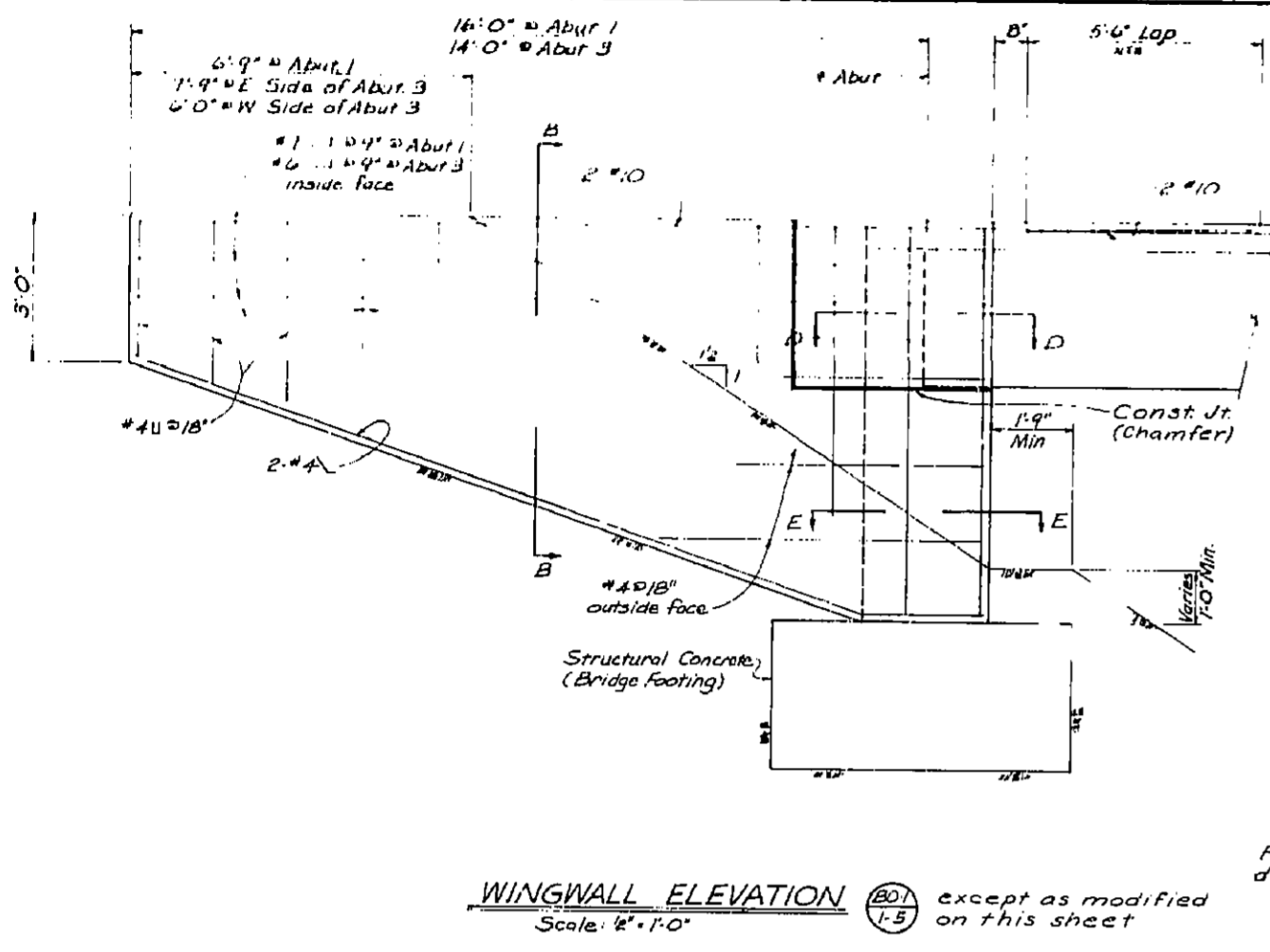
FOUNDATION PLAN

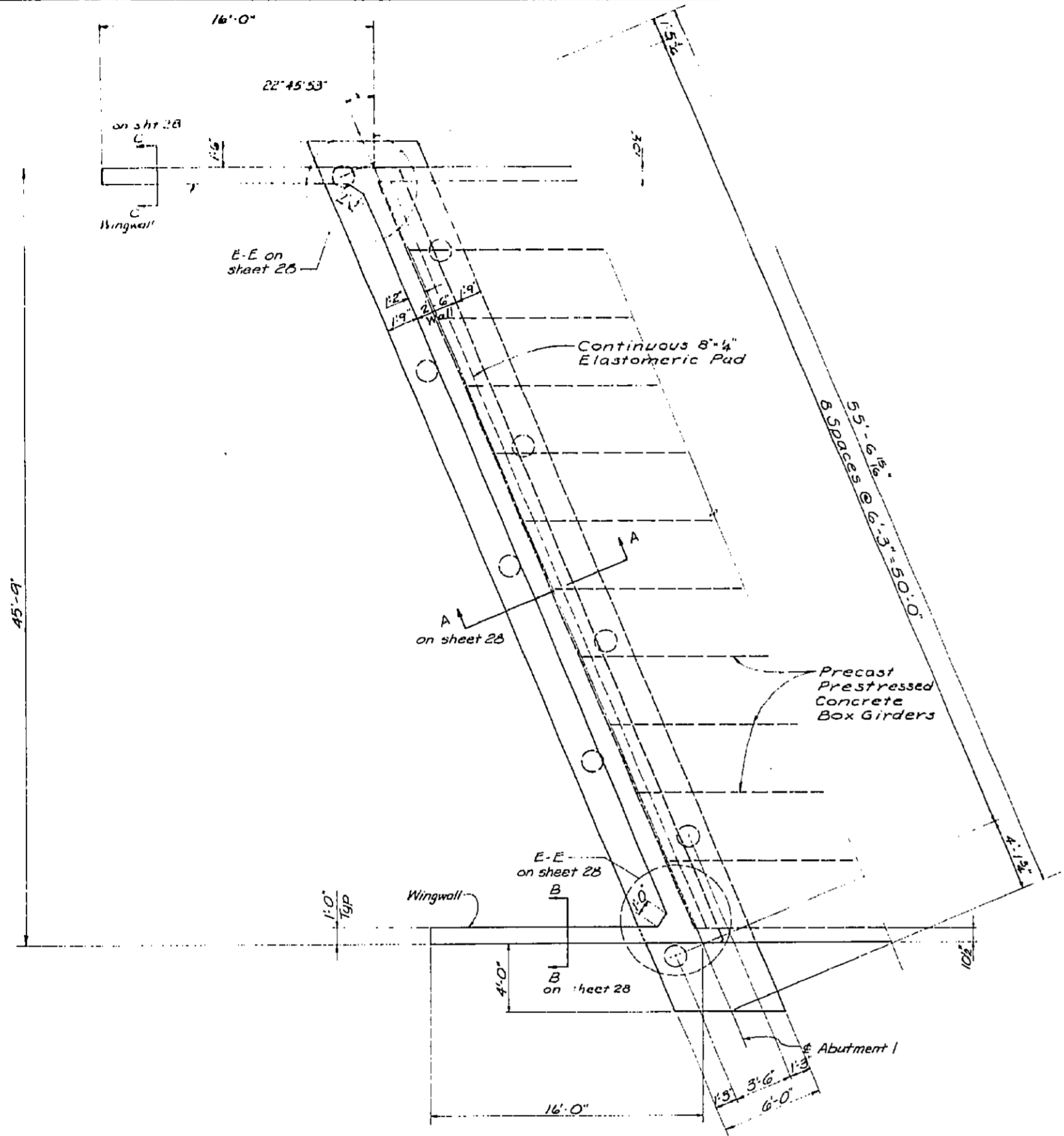
1" = 10'

Legend

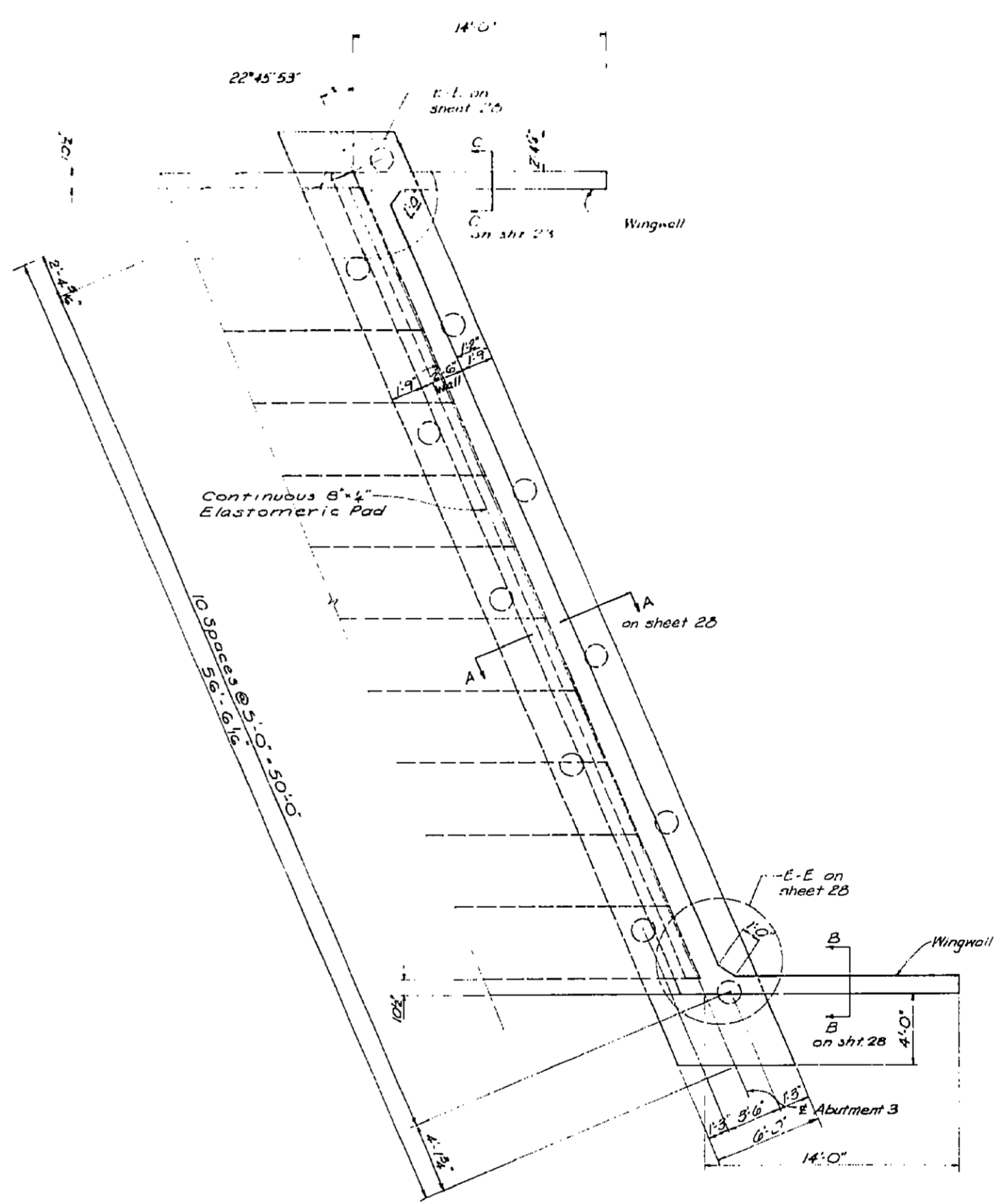
- Class 70 Piles, Precast Prestressed Concrete*
 - Bottom of footing elevation
 - △ Batter Piles (1:4 Batter)
- Pre-drill all holes to Elev 360.0 @ Pier 2.

* Alternative 'X' or 'Y', Stand 1 Plan Sheet B2.5.

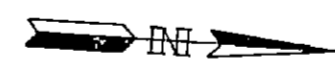




SOUTH ABUTMENT PLAN
Scale: 1/4" = 1'-0"



NORTH ABUTMENT PLAN
Scale: 1/4" = 1'-0"



No Change

CHANGE ORDER No 2

SUGGESTED BY: STRUCTURAL ENGINEER

REASON: TO PROVIDE FOR EXPANSION * EXTRAORDINARY CONTRACTION @ PIER No 2 CAUSED BY CREEP * SHRINKAGE OF PRECAST, PRESTRESSED CONCRETE BOX GIRDERS

FORMED & SAWCUT JOINT W/
TYPE A POLYURETHANE SEAL
SEE (B&Z) # 2 # 3

DO NOT RUN SLAB REINF.
THROUGH JOINT.

#5 @ 16" E.W.

ADD VINYLEX 5" PVC. WATER-
STOP V5-310

ADD 1" WEEP HOLE 8" IN
FROM EAST FACE OF EACH
BOX GIRDER.

FOR ALL OTHER DETAILS,
SEE SECT. A-A, SHEET 29
OF THE PLANS FOR CON-
STRUCTION ON COFFEE

#6 DOWELS @ 16" SPACED
NORMAL TO GIRDERS (ONE DOWEL
ON E. OF EA. BOX GIRDER JOINT)
BEND ALL DOWELS AS SHOWN

NEW ELASTOMERIC PAD POSITIONING

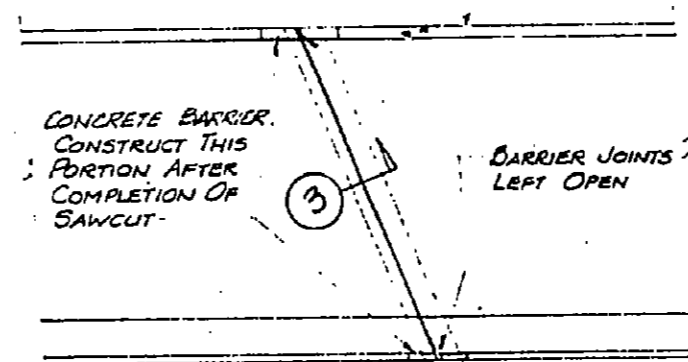
TOP OF DECK

EXPANDED
POLYSTYRENE

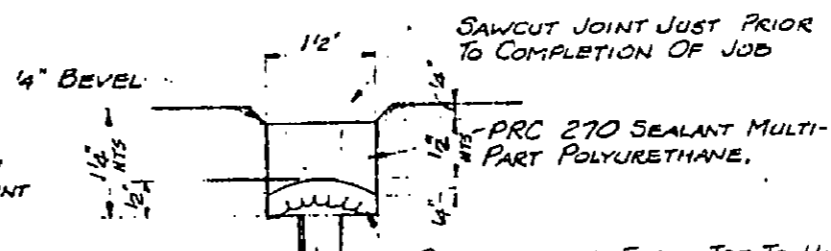
1/2" MAX. THICKNESS
HARDBOARD PROTECTION
ON CONCRETE PLACEMENT
SIDE OR SIDES

FORMING DETAIL 1"=2"

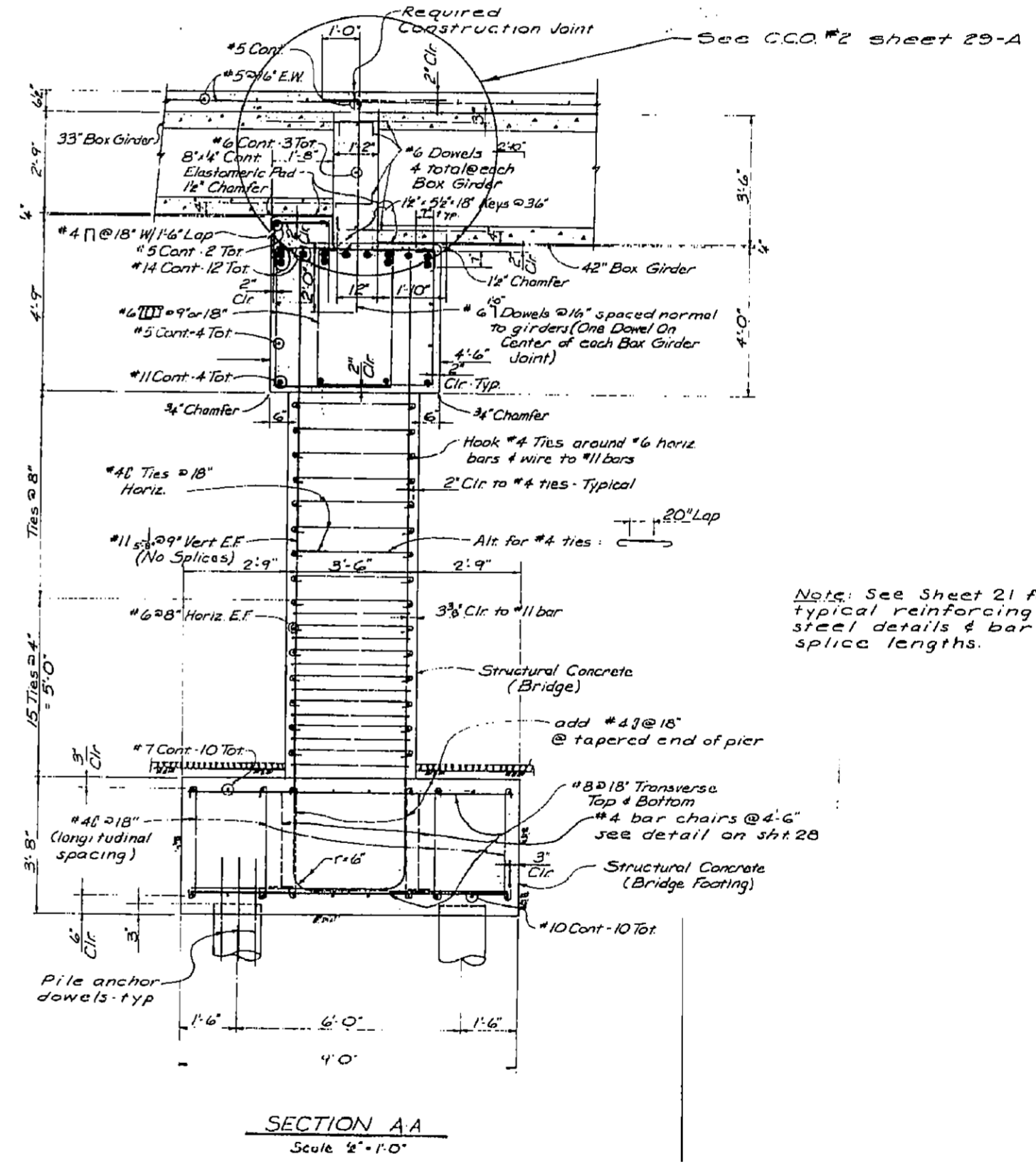
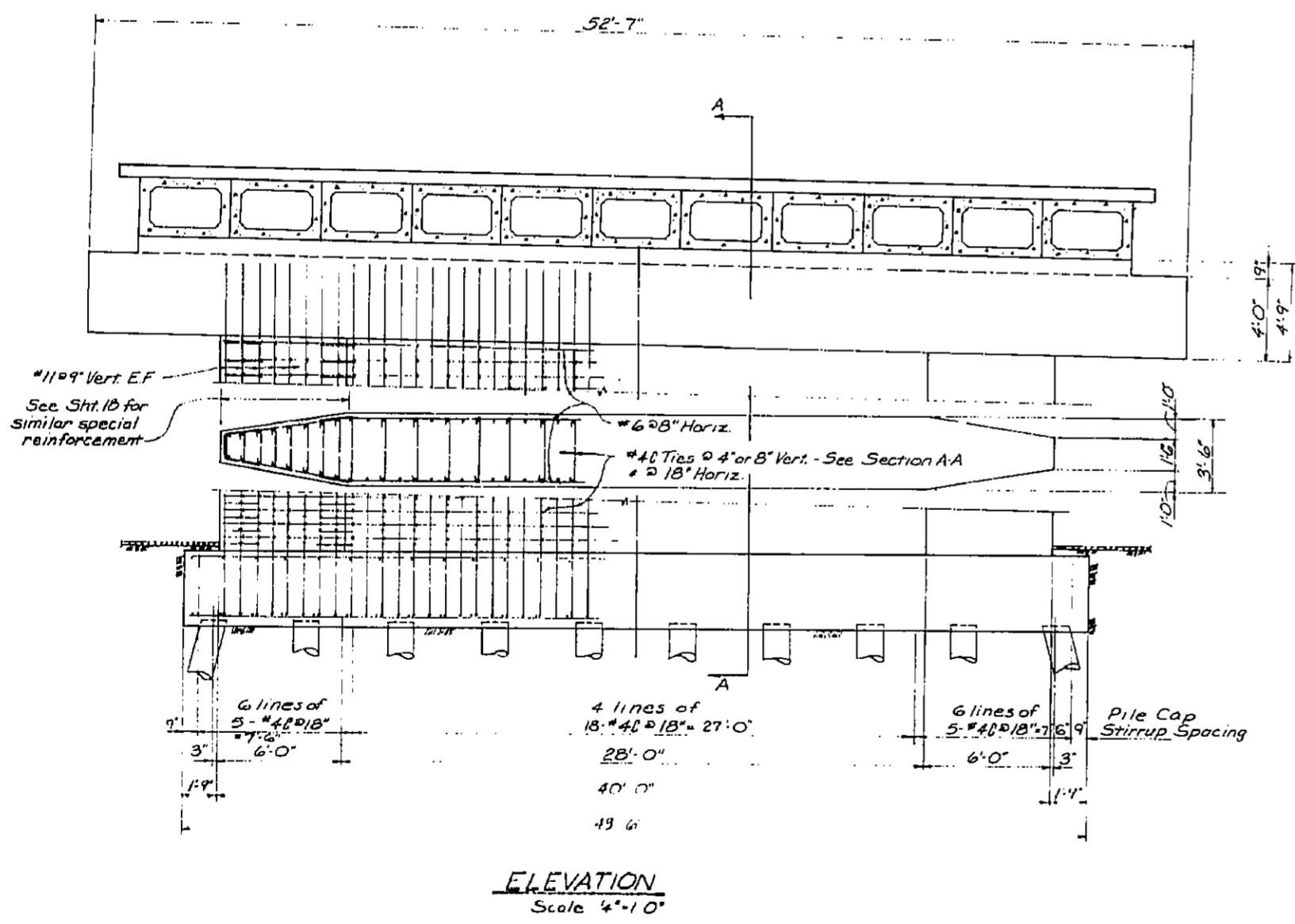
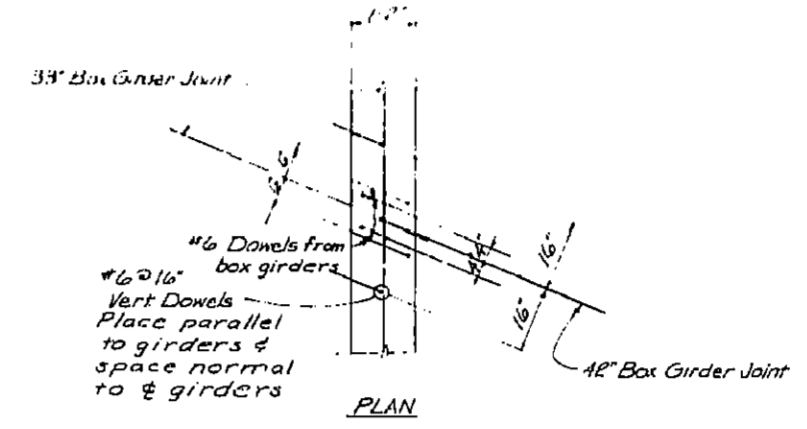
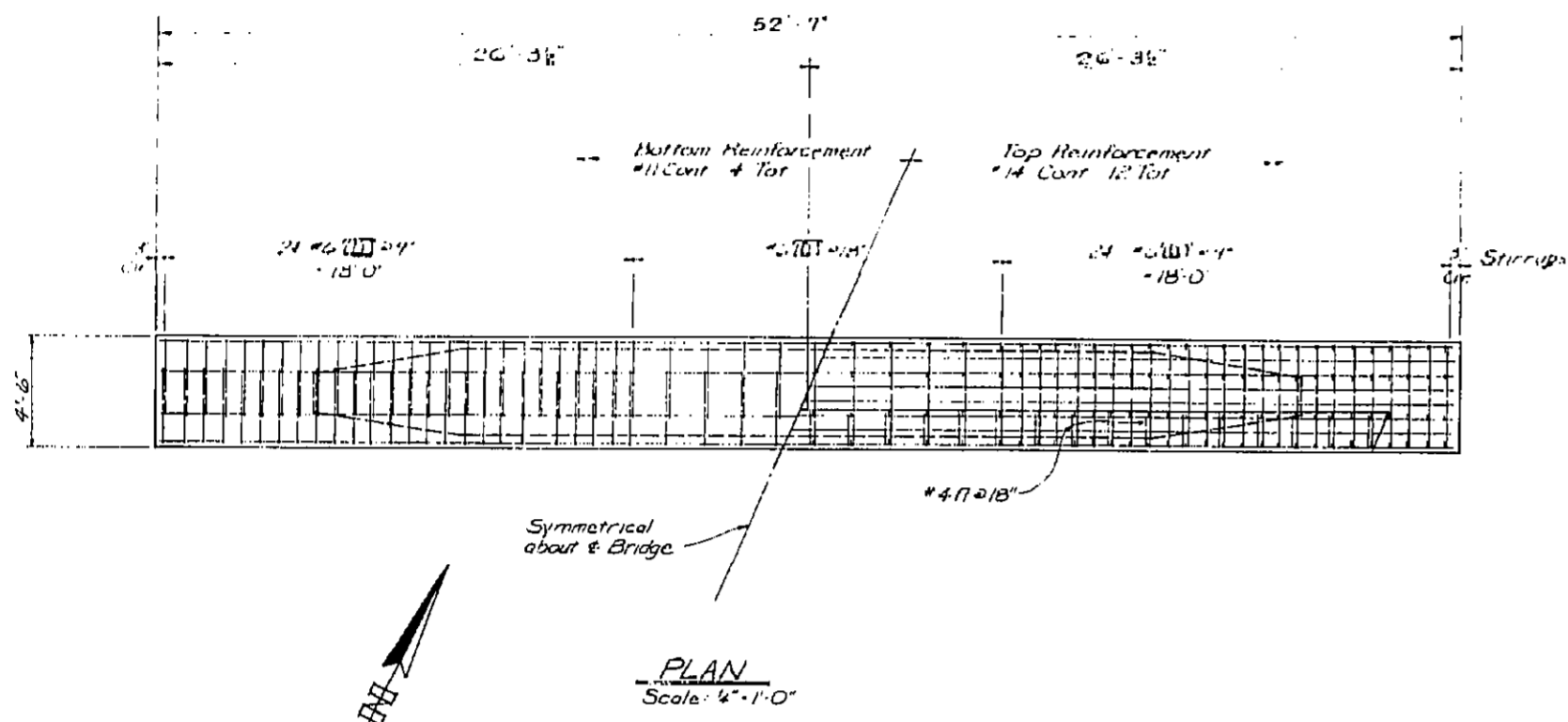
PIER No 2 2"=1'-0"



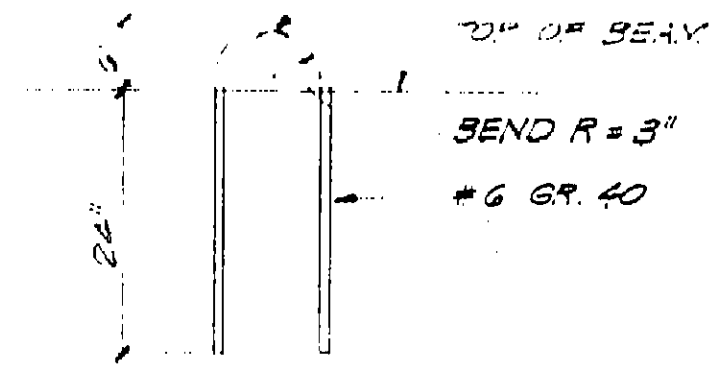
PLAN 1"=20"



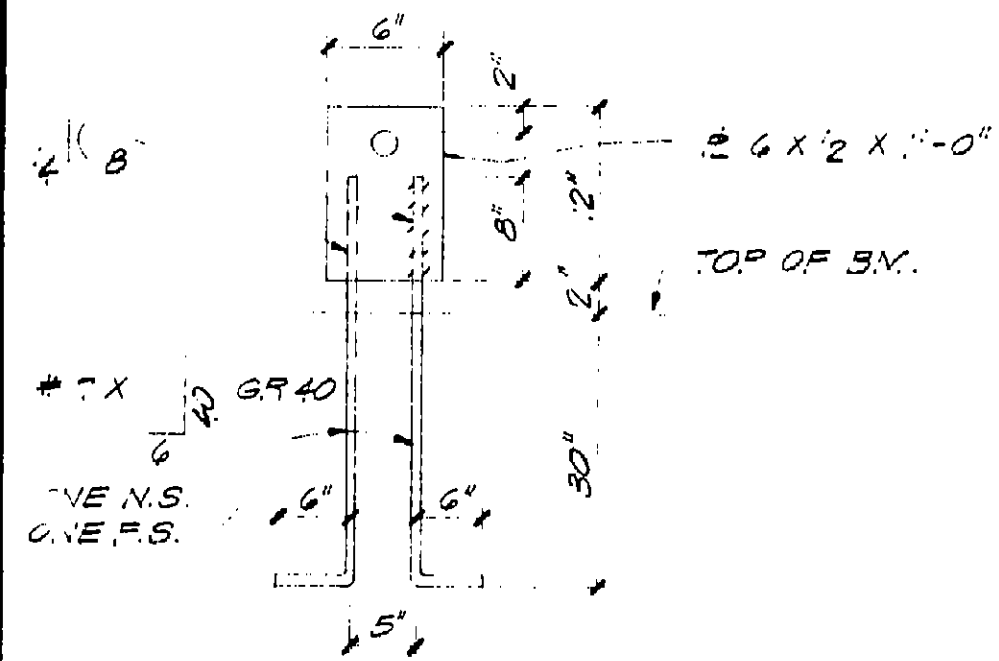
SAWCUT & SEAL DETAIL 1"=2"



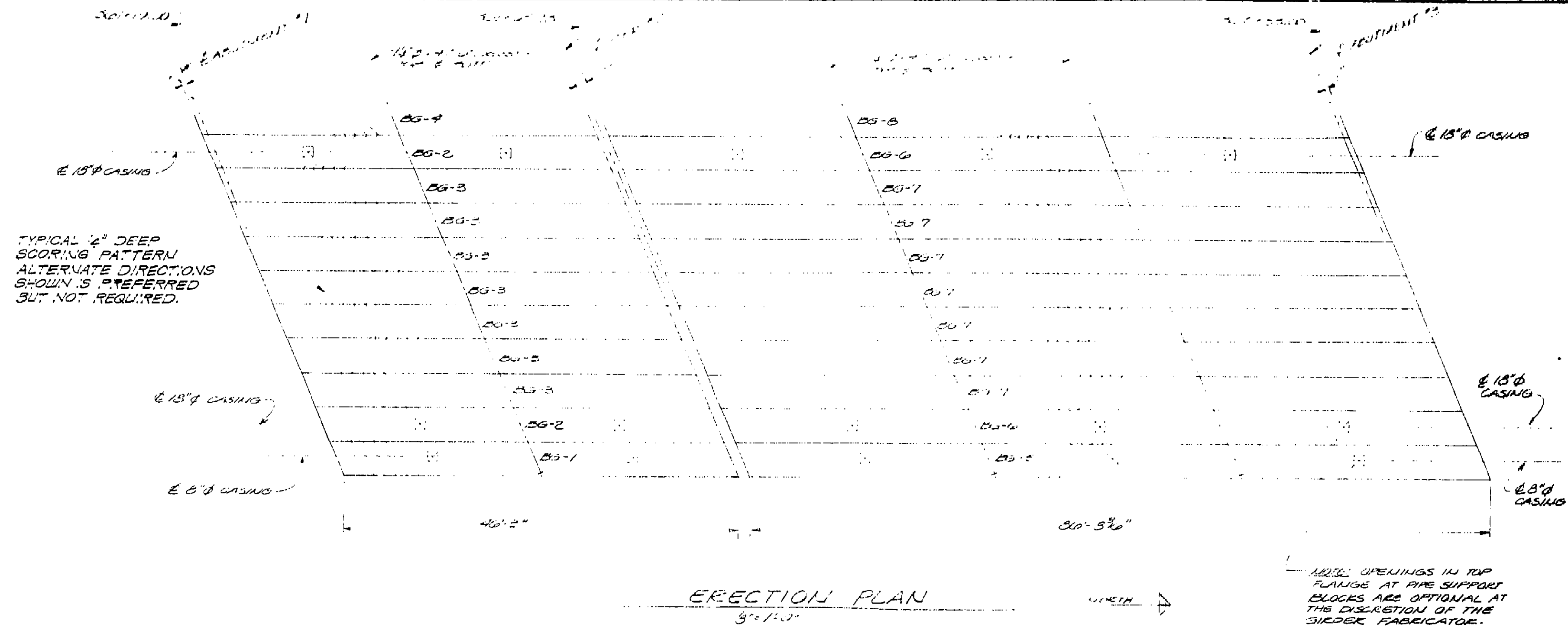
USE LARGE D.H.
LIFT PIN



LIFT ANCHOR DETAIL "A"
44 REQ'D. 4 EA. 33" GIRDER
NO SCALE



LIFT ANCHOR DETAIL "B"
44 REQ'D. 4 EA. 42" GIRDER
NO SCALE



TYPICAL 1/2" DEEP
SCORING PATTERN
ALTERNATE DIRECTIONS
SHOWN IS PREFERRED
BUT NOT REQUIRED.

ADDED OPENINGS IN TOP
FLANGE AT PILE SUPPORT
BLOCKS ARE OPTIONAL AT
THE DISCRETION OF THE
SHEEP FABRICATOR.

NOTES

- CONCRETE**
1. CONCRETE SHALL BE 1" MAX. FINISH. MIN. PUMP 4" DIA. STR. WITH 10,000 PSI MIN.
 2. CONCRETE STRENGTH AT TRANSFER (RELEASE OF FORMS) SHALL BE 4000 PSI MIN.

PRESTRESSING STRANDS:

1. STRANDS ARE 2" DIA. 7 STRAND CABLES, $F_u = 270$ KSI, AREA 0.193 SQ. IN. CONFORM TO ASTM A-410.
2. MAXIMUM JERING FORCE SHALL NOT EXCEED 20,000 POUNDS PER CHORD.
3. FORCE IN STRAND AT TRANSFER SHALL BE 18,900 POUNDS PER CHORD (20,000 * .95) MINUS 10% SLACK.
4. WORKING FORCE IN STRAND IS CALCULATED TO BE 15,000 POUNDS EACH IN 42" GIRDER AND 19,000 POUNDS EACH IN 48" GIRDER. 1% STRAINS ARE ALLOWED.
5. SLEEVING OF STRANDS ON BOX GIRDERS BG-5, BG-6, BG-7 & BG-8 SHALL PROVIDE 100% COVERAGE FOR LENGTH TO BE SLEEVED, USING A PRESSURE SENSITIVE TAPE HAVING A RUBBER RESU ADHESIVE & TENSILE ONE COATED CLOTH BACKING. SPECIFICALLY, DUCT TAPE.

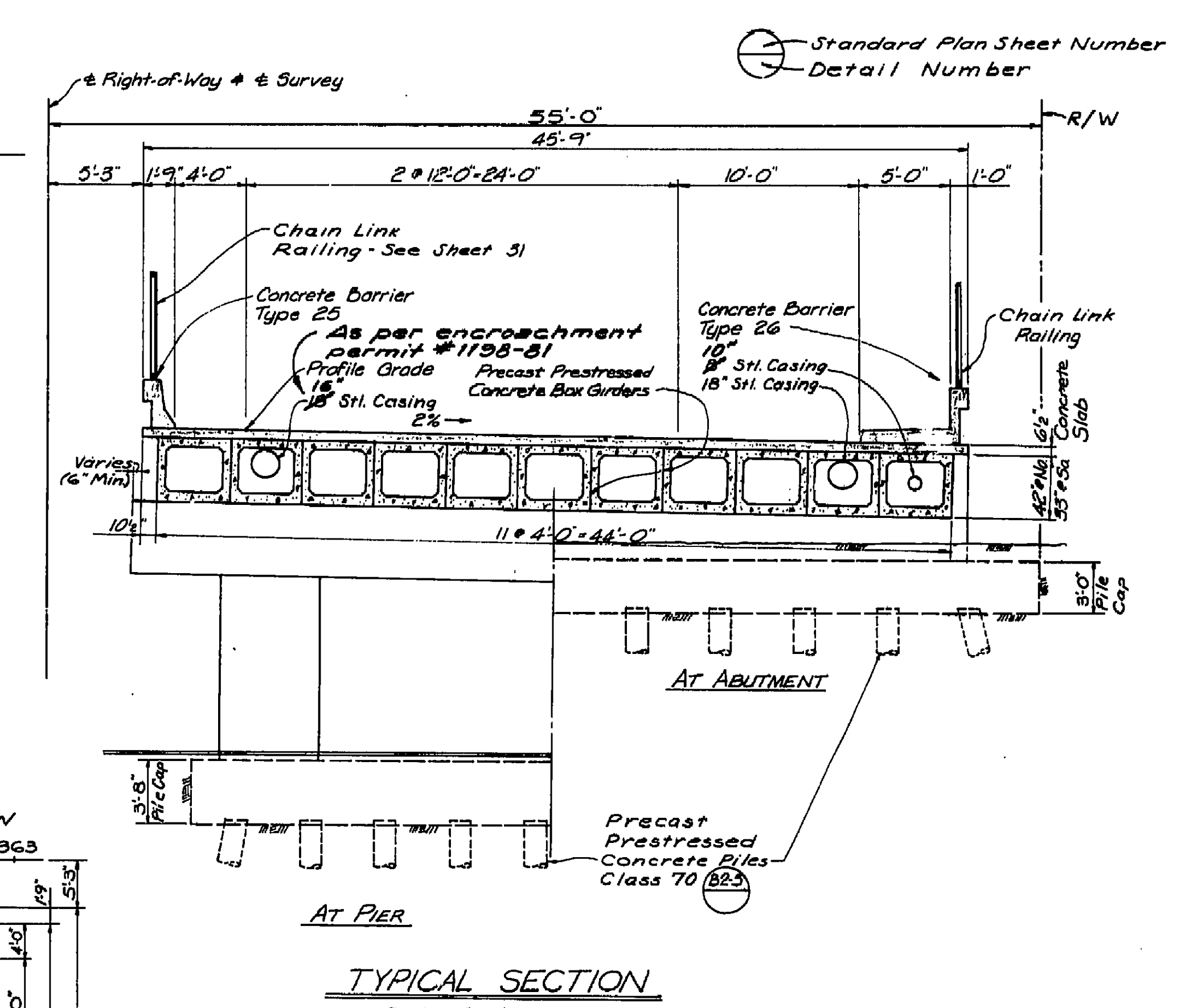
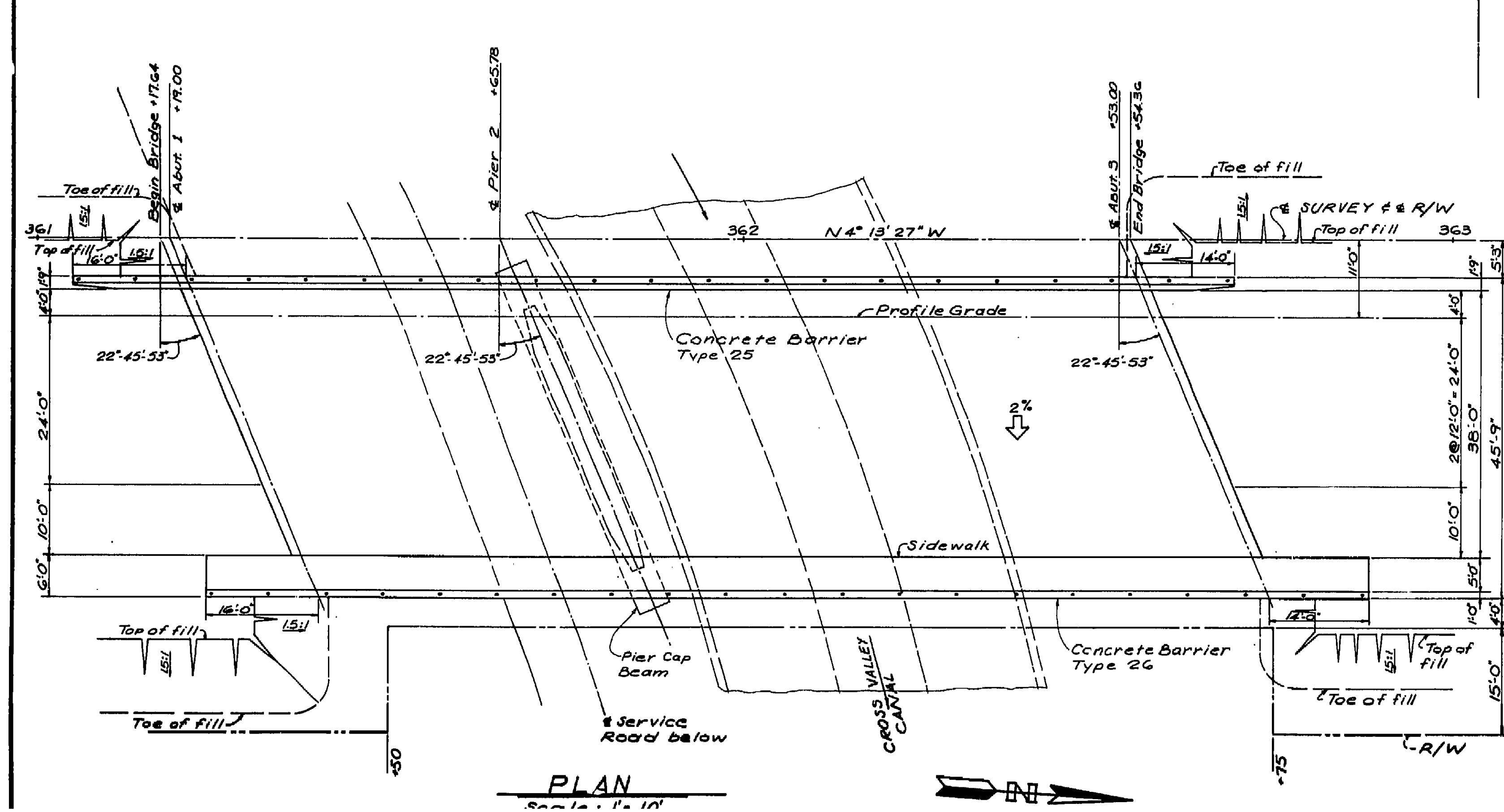
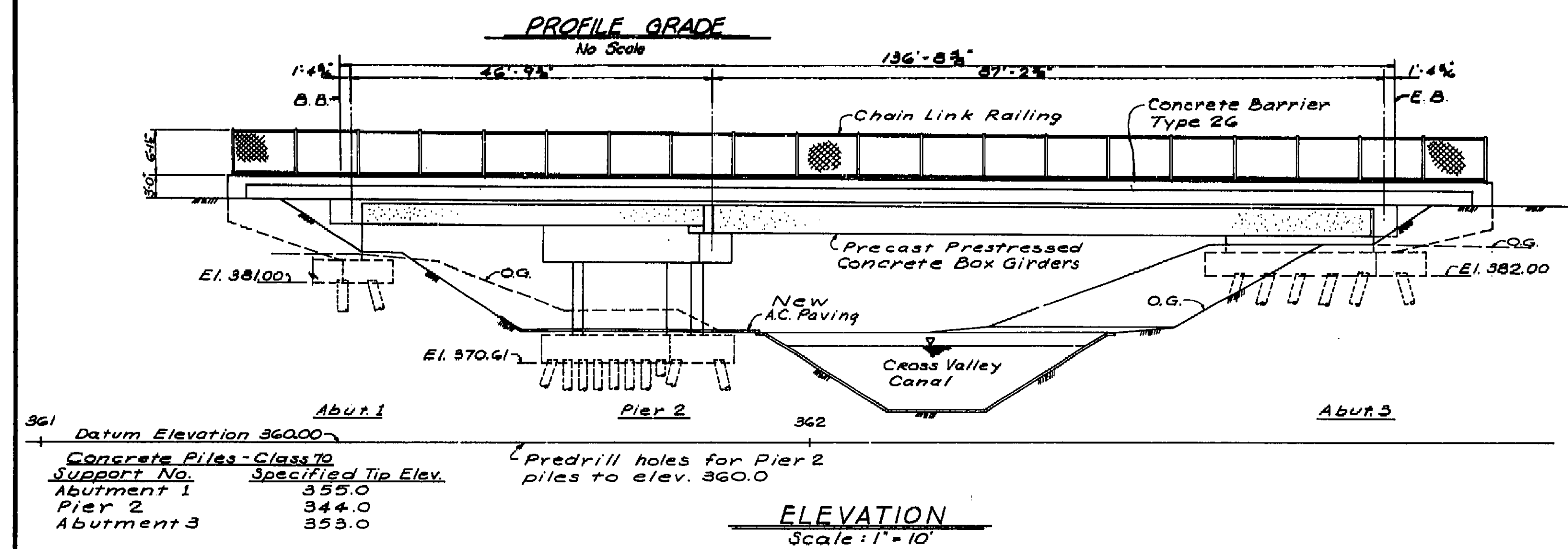
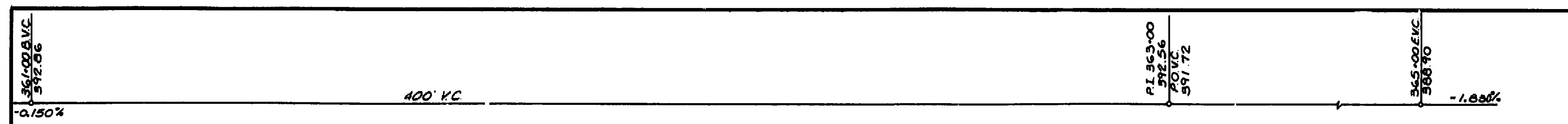
REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM-A-615, GR 40 OR 60 AS NOTED.

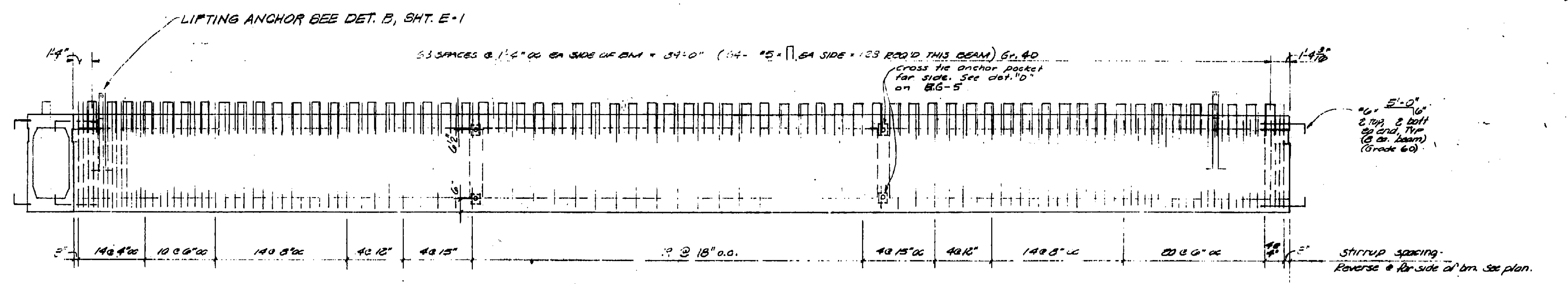
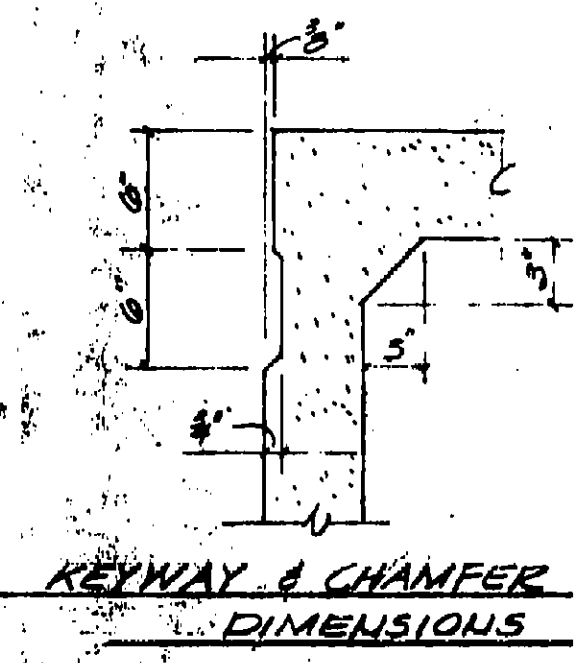
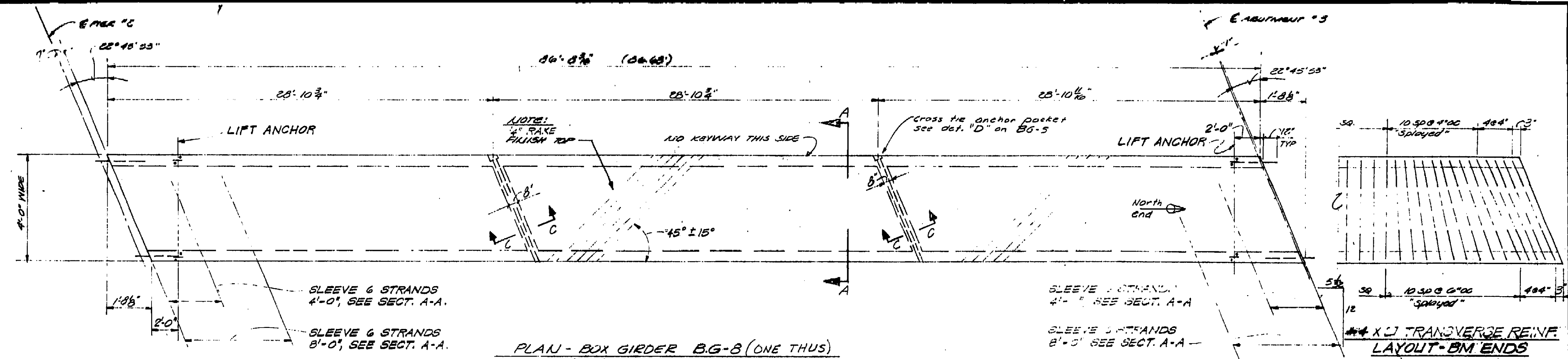
CAMBER:

1. BEAMS WILL BE CAST IN LEVEL FORM.
 2. PRETENSURING FORCES WILL CAUSE THE FOLLOWING ANTICIPATED CAMBERS:
- | BY: | CAMBER AT ERECTION | REMAINING CAMBER W/ SAND & CHARGES IN PLACE | LONG-TERM CAMBER |
|-----------|--------------------|---|------------------|
| BG-1-BG-4 | 0.34" UP | 0.24" UP | 0.07" UP |
| BG-5-BG-8 | 1.55" UP | 0.37" UP | 0.70" UP |

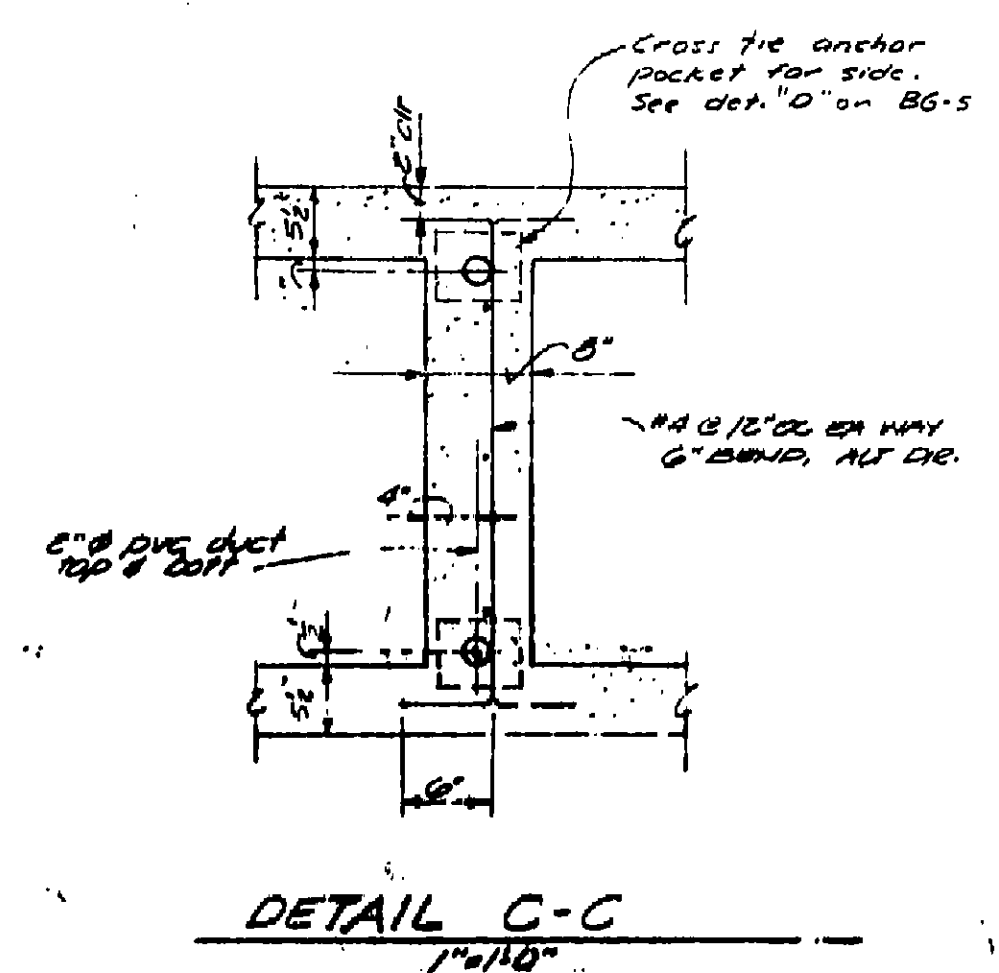
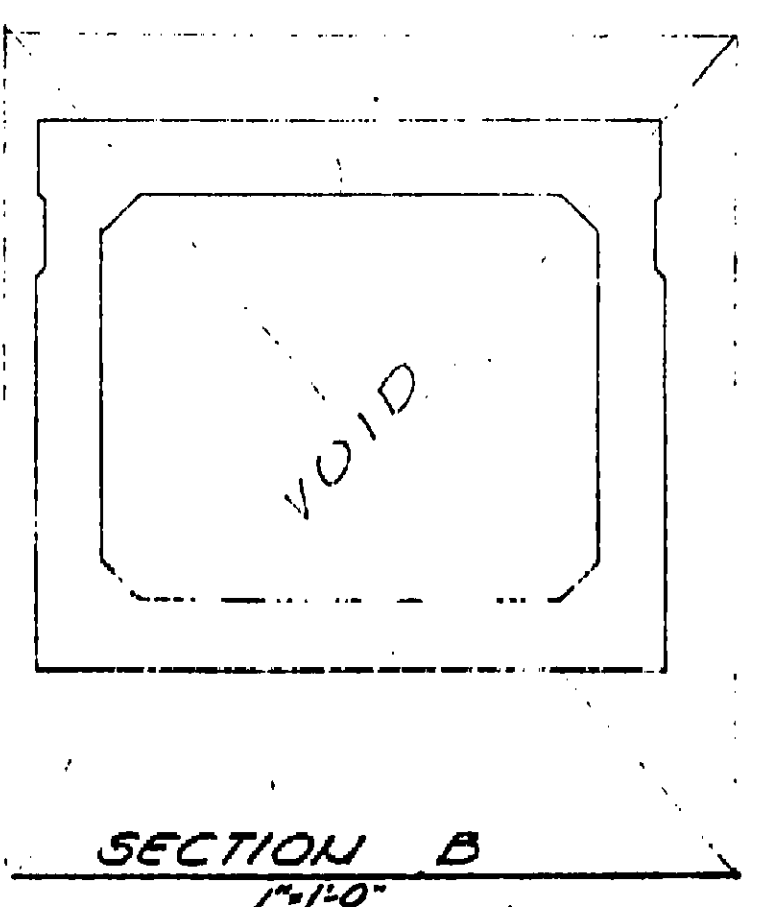
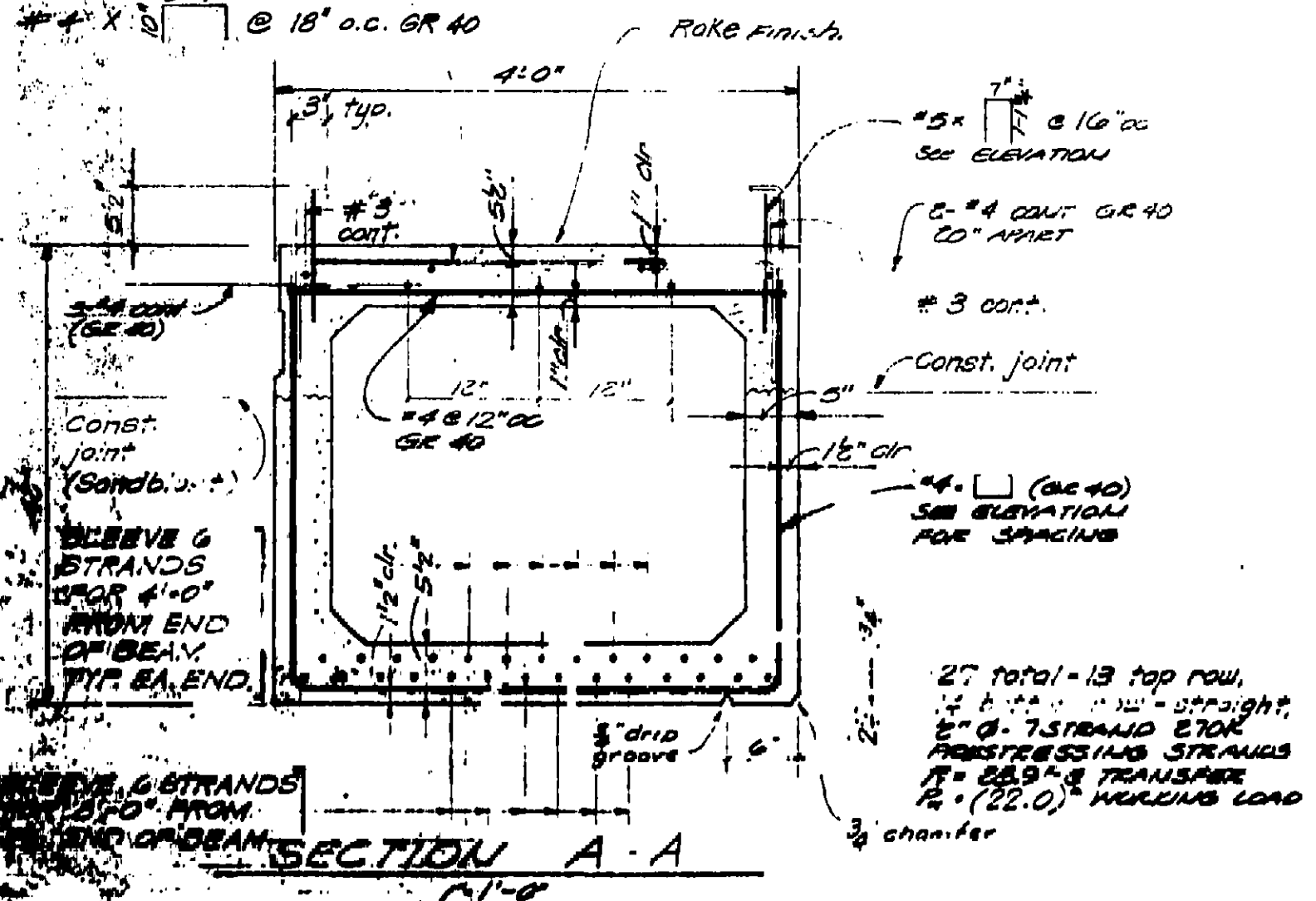
THESE CAMBERS ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE BRIDGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND RECORDING THE CAMBER AT ALL STAGES OF CONSTRUCTION AND MAINTENANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY UNDESIRABLE CAMBER DEVELOPMENTS.

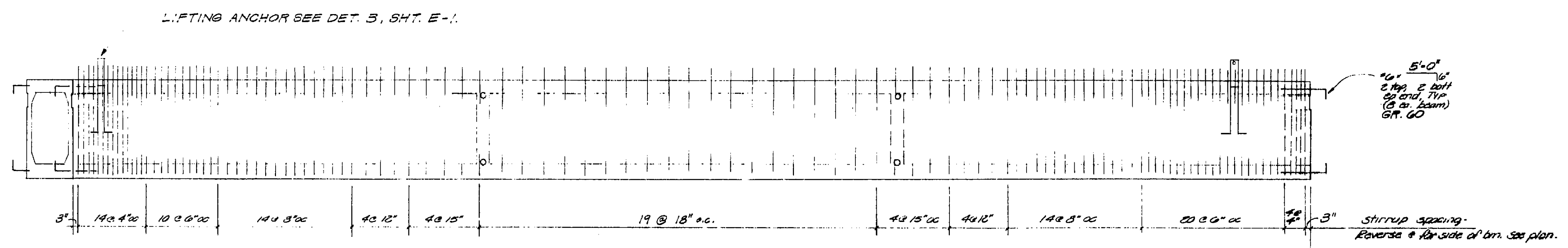
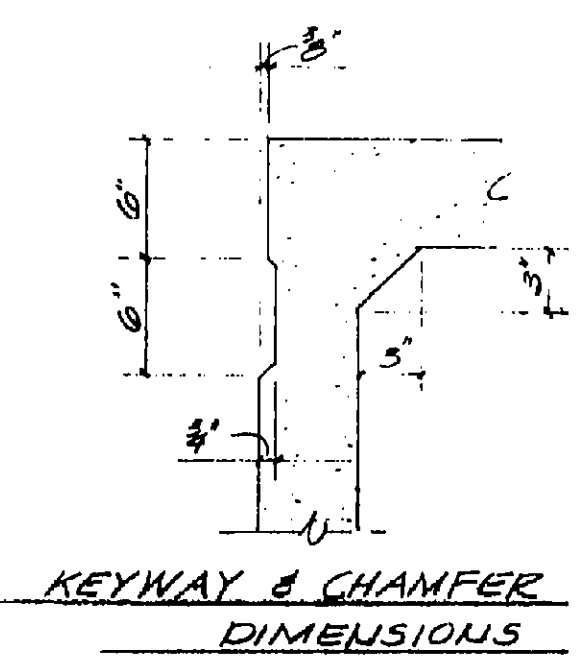
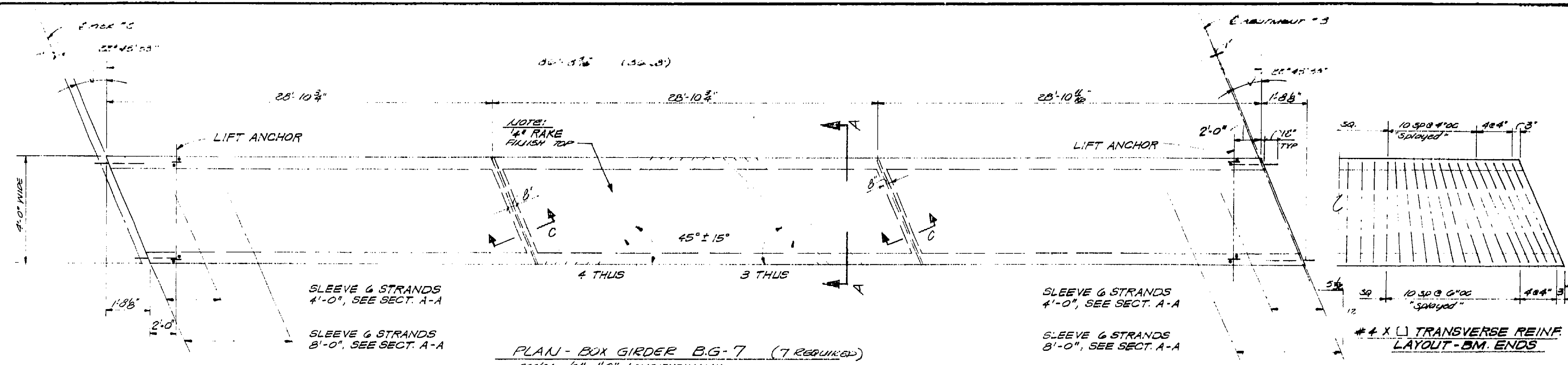


BRIDGE QUANTITIES	
Final Pay Quantities	
Structure Excavation	292 CY
Structure Backfill	155 CY
Structural Concrete (Bridge Footing)	125 CY
Structural Concrete (Bridge)	250 CY
Bar Reinforcing Steel	65,000 lbs
Approximate Quantities	
Furnish Concrete Piling (Class 70)	1170 LF
Drive Concrete Piles (Class 70)	40 Ea.
Furnish Precast P/S Conc. Box Girders (40'x50')	
Furnish Precast P/S Conc. Box Girders (60'x90')	11 Ea.
Erect Precast P/S Conc. Box Girders	22 Ea.
Chain Link Railing	330 LF
Concrete Barrier (Type 25)	140 LF
Concrete Barrier (Type 25A)	30 LF
Concrete Barrier (Type 26)	140 LF
Concrete Barrier (Type 26A)	30 LF

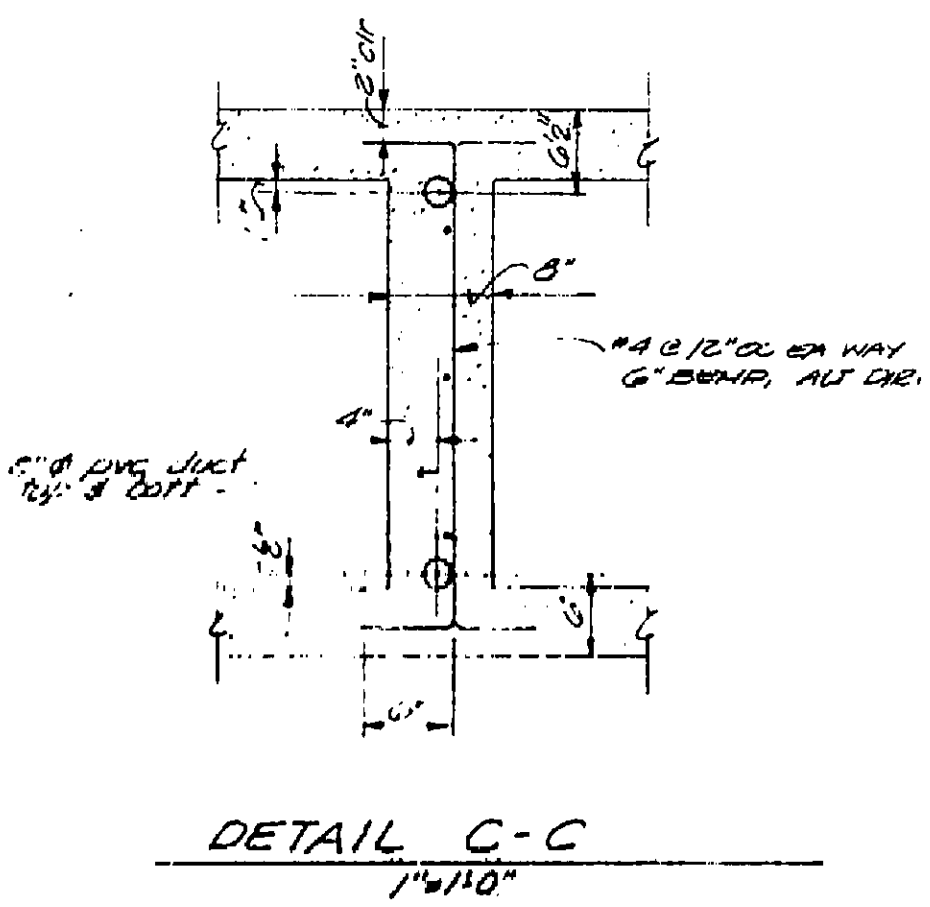
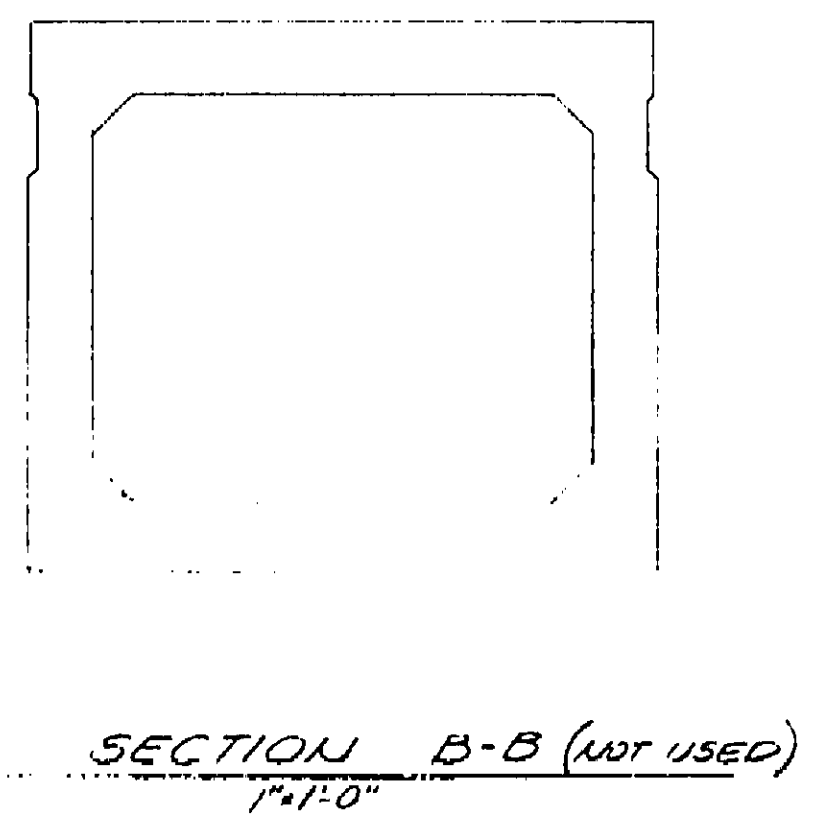
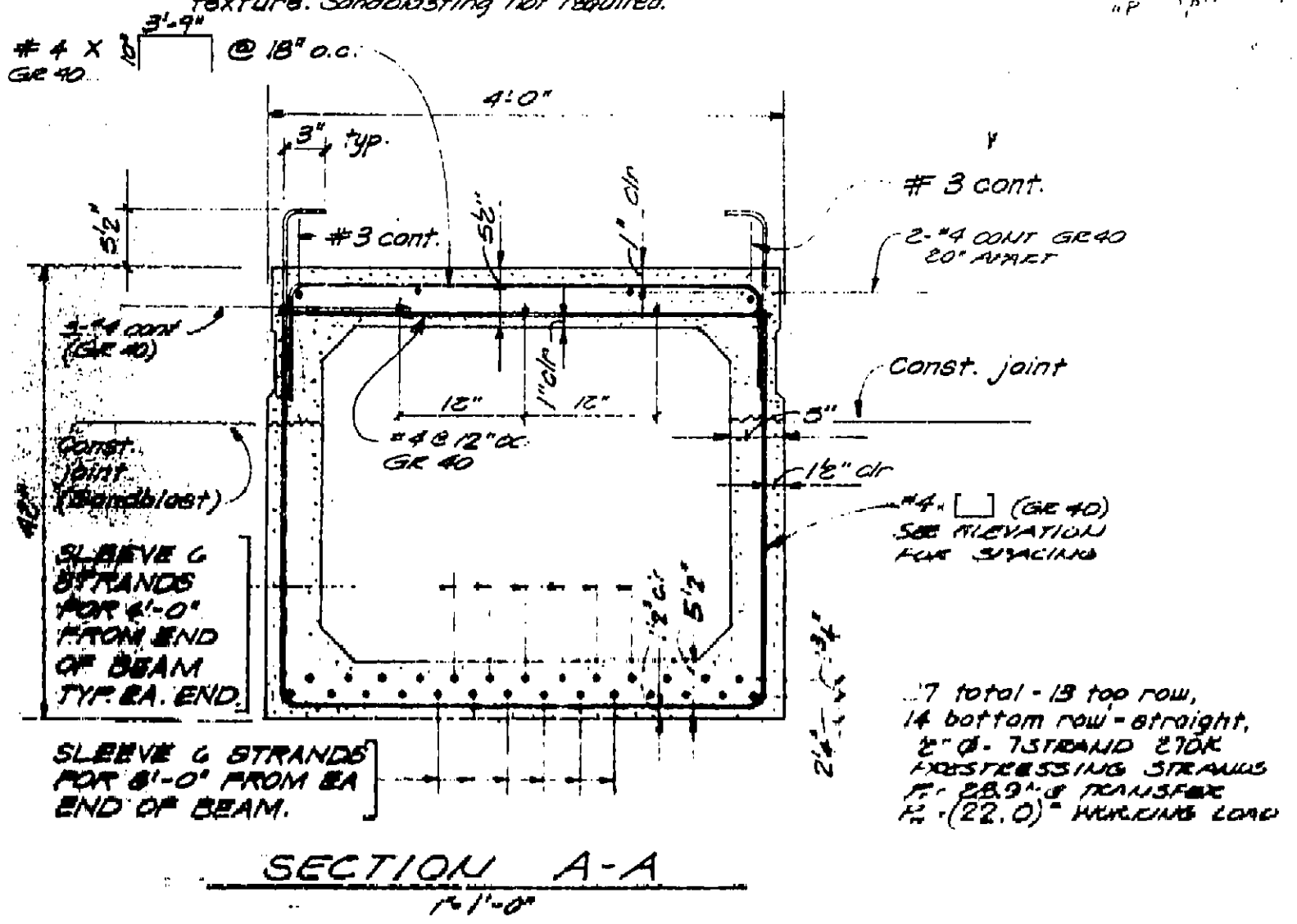


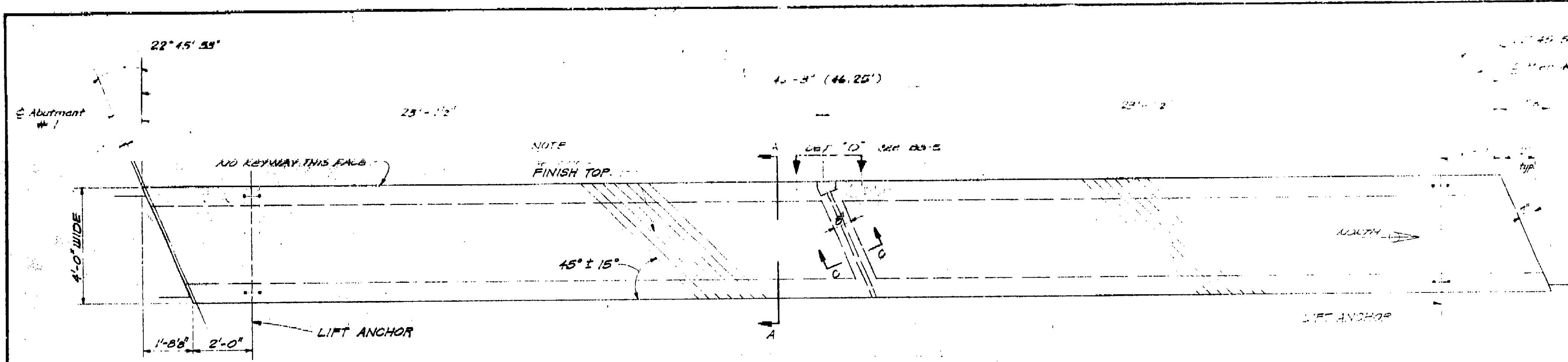
NOTE: Top of box girders shall be raked or roughened to provide complete bond to 6" x 6" topping slab. Surface shall be roughened to 1/4" average texture. Sandblasting not reqd.



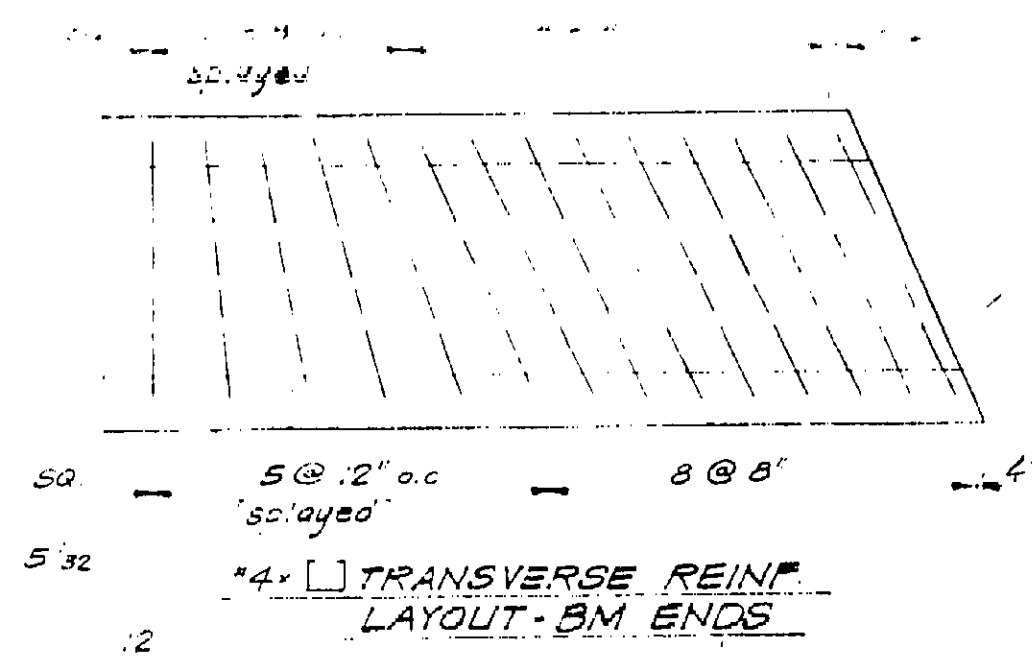


Note: Top of box girders shall be raked or roughened to provide complete bond to 6"2" topping slab. Surface shall be roughened to 1/4" average texture. Sandblasting not required.

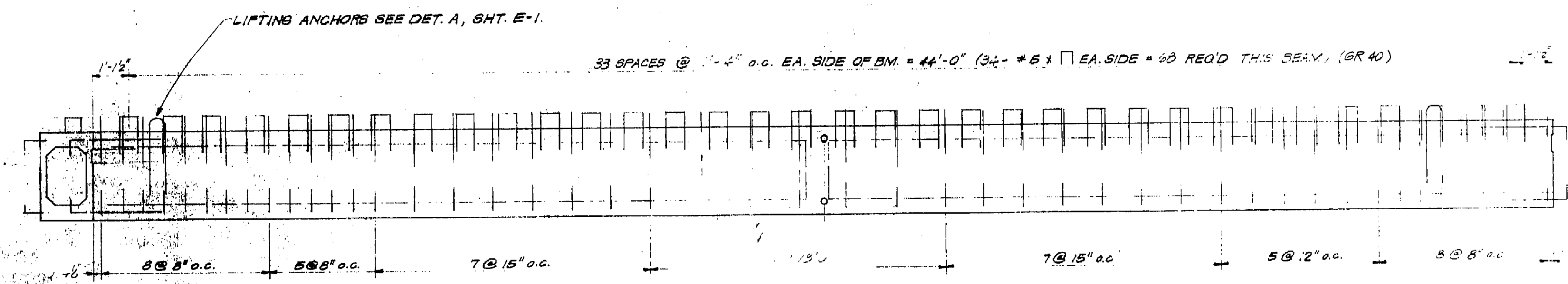




PLAN - BOX GIRDER B.G.-4 (ONE REQUIRED)
SCALE: 1/2" = 1'-0"



5 @ 2' o.c. 8 @ 8'
5 @ 4' TRANSVERSE REIN. LAYOUT - BM ENDS

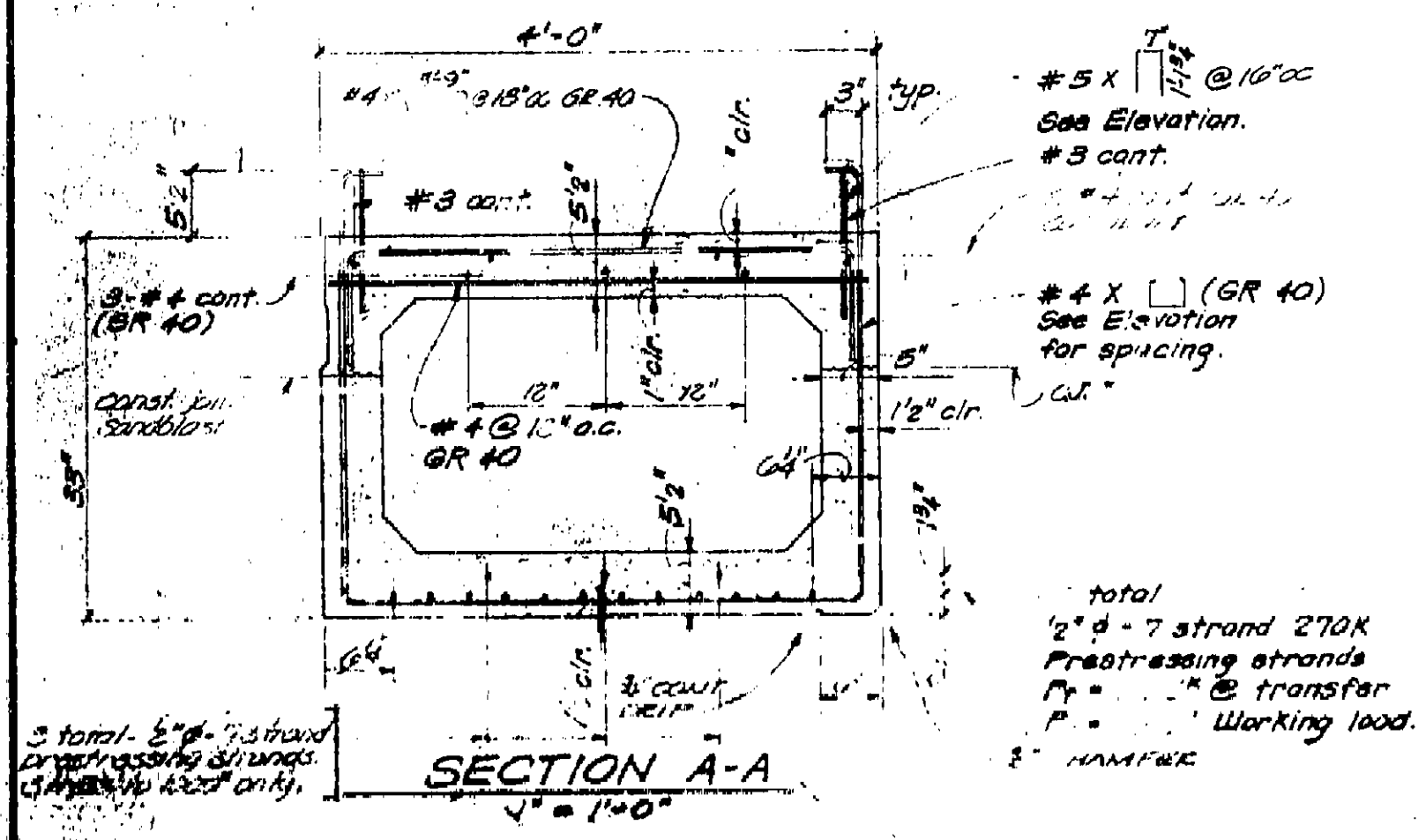


ELEVATION - BOX GIRDER B.G.-4 (ONE REQUIRED)
SCALE: 1/2" = 1'-0"

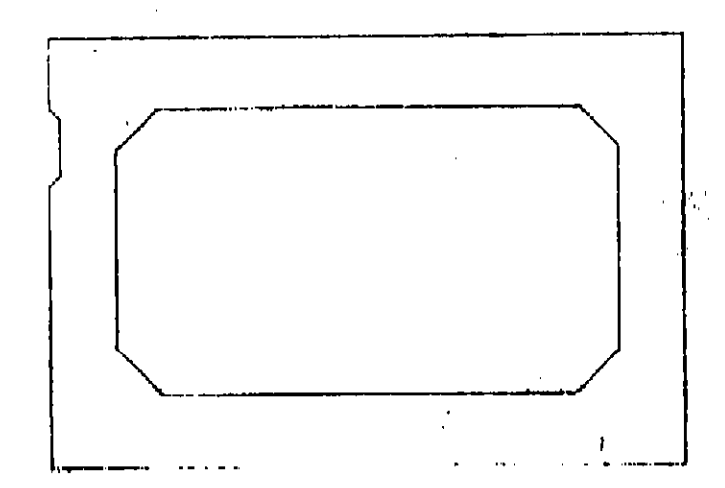
NOTE: Top of box girders shall be raked or roughened to provide complete bond to 60% topping. Slab surfaces shall be roughened to 4" average texture. Sandblasting not required.

#5 X 1/2" @ 16" o.c.
2 top, 2 bott.
ea end, typ.
(8 ea beam)

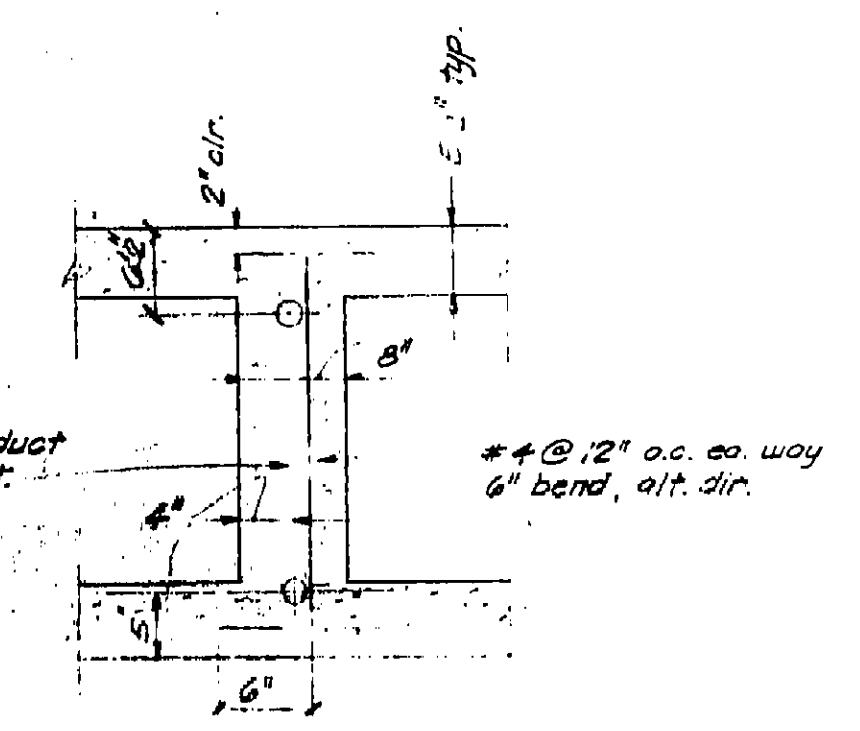
stirrup spacing
Reverse @ far side of beam. See plan.



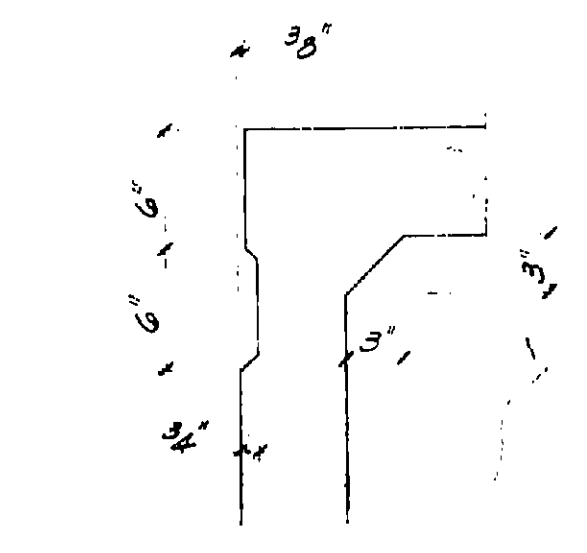
SECTION A-A
1/2" = 1'-0"



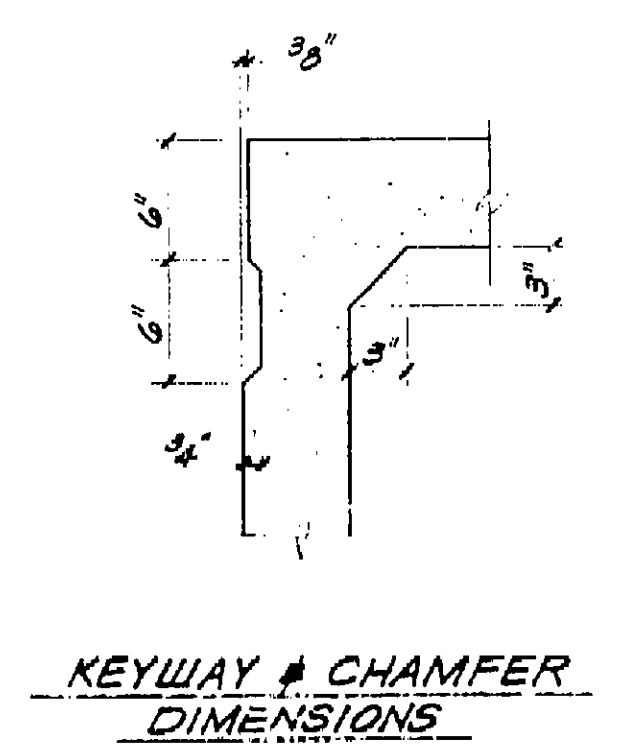
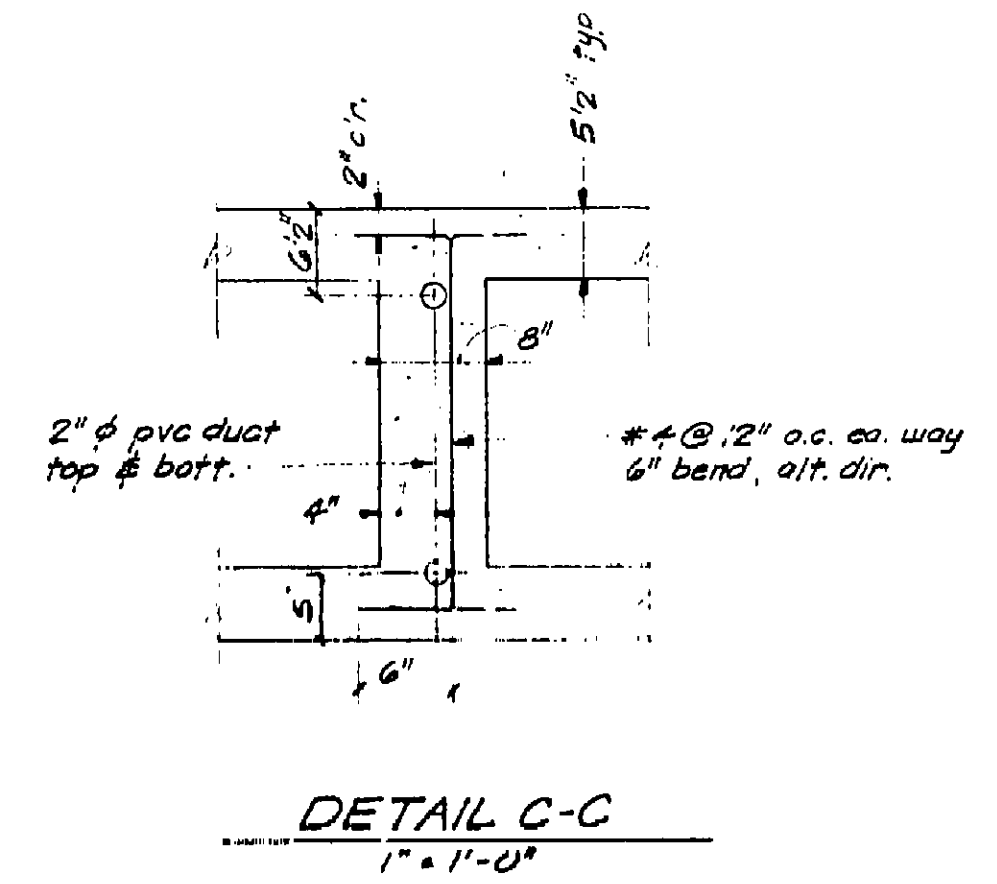
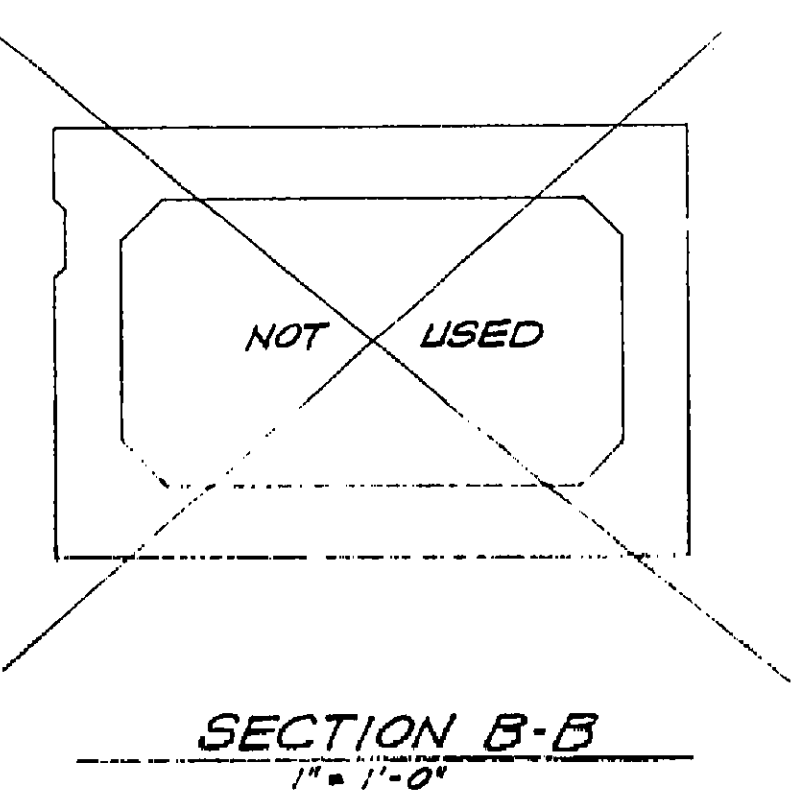
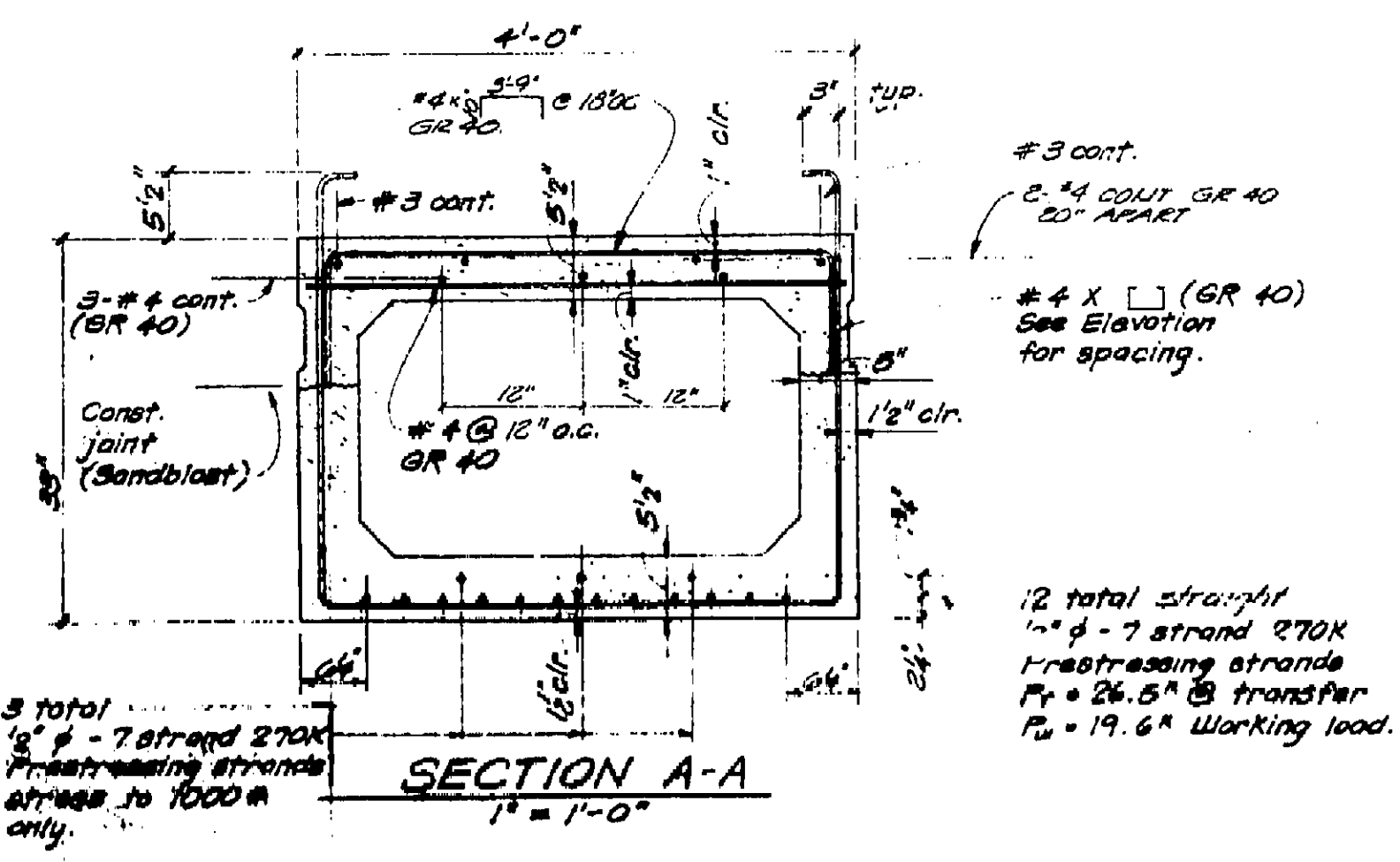
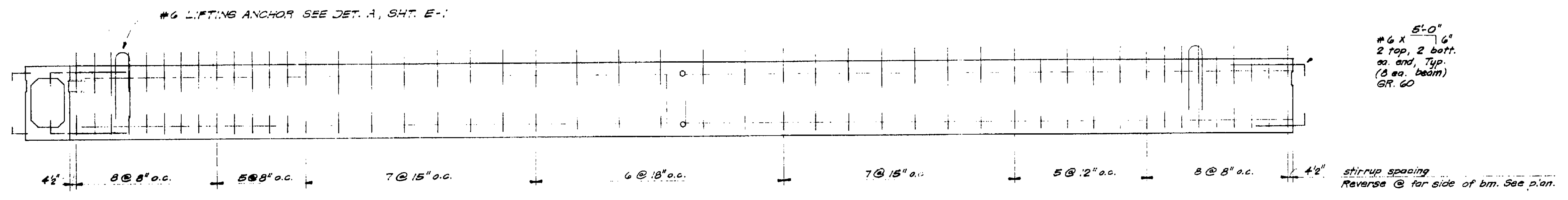
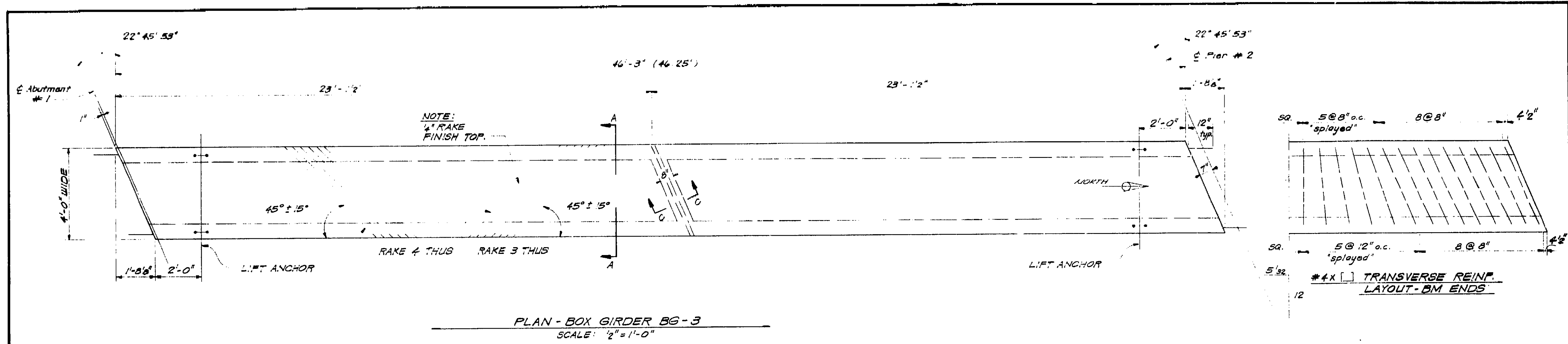
SECTION B-B (NOT USED)
1/2" = 1'-0"

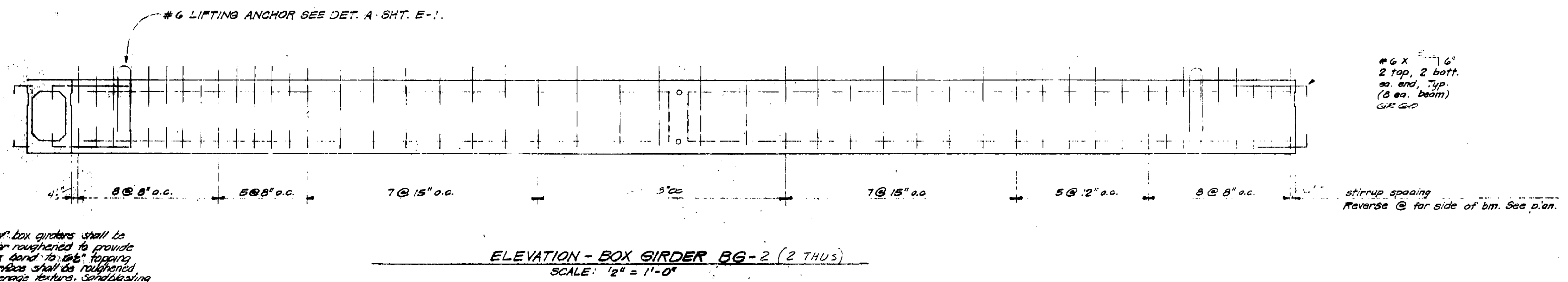
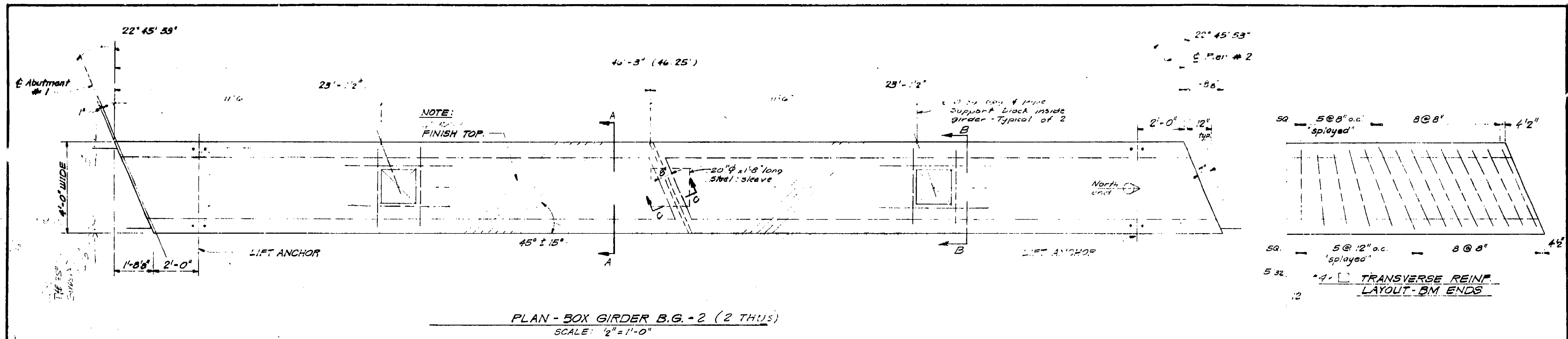


DETAIL C-C
1/2" = 1'-0"

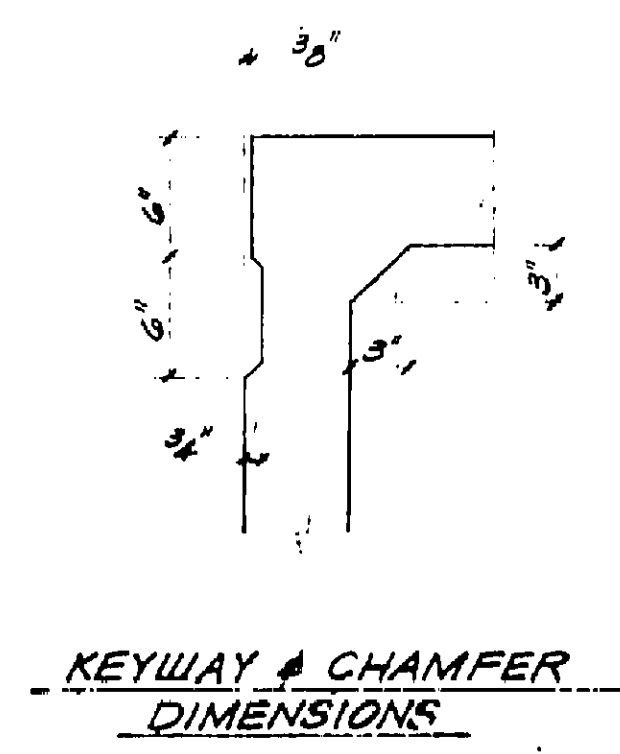
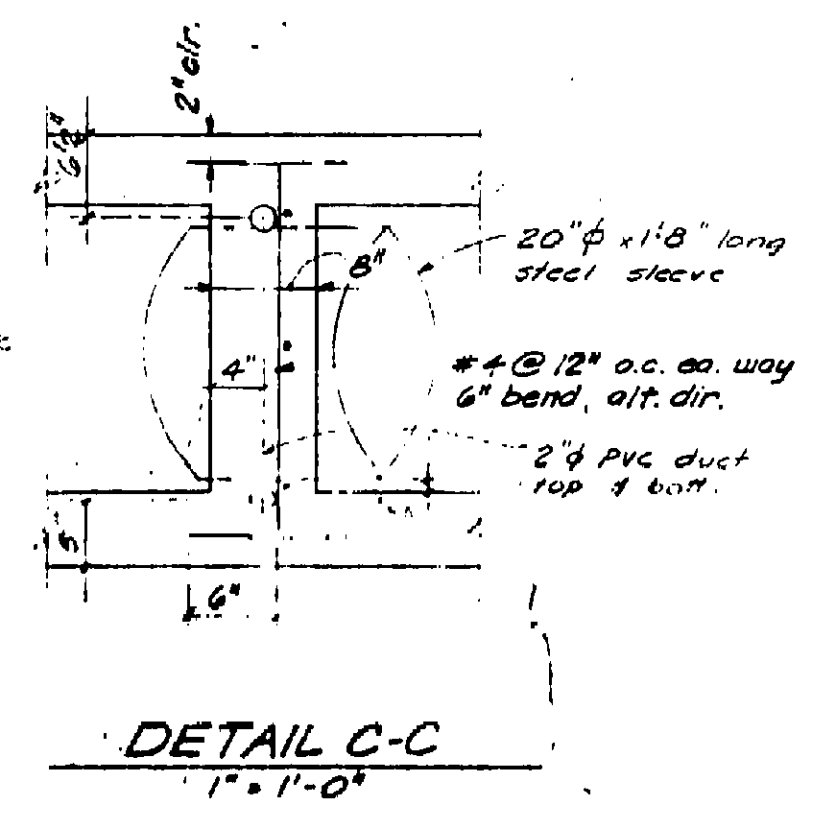
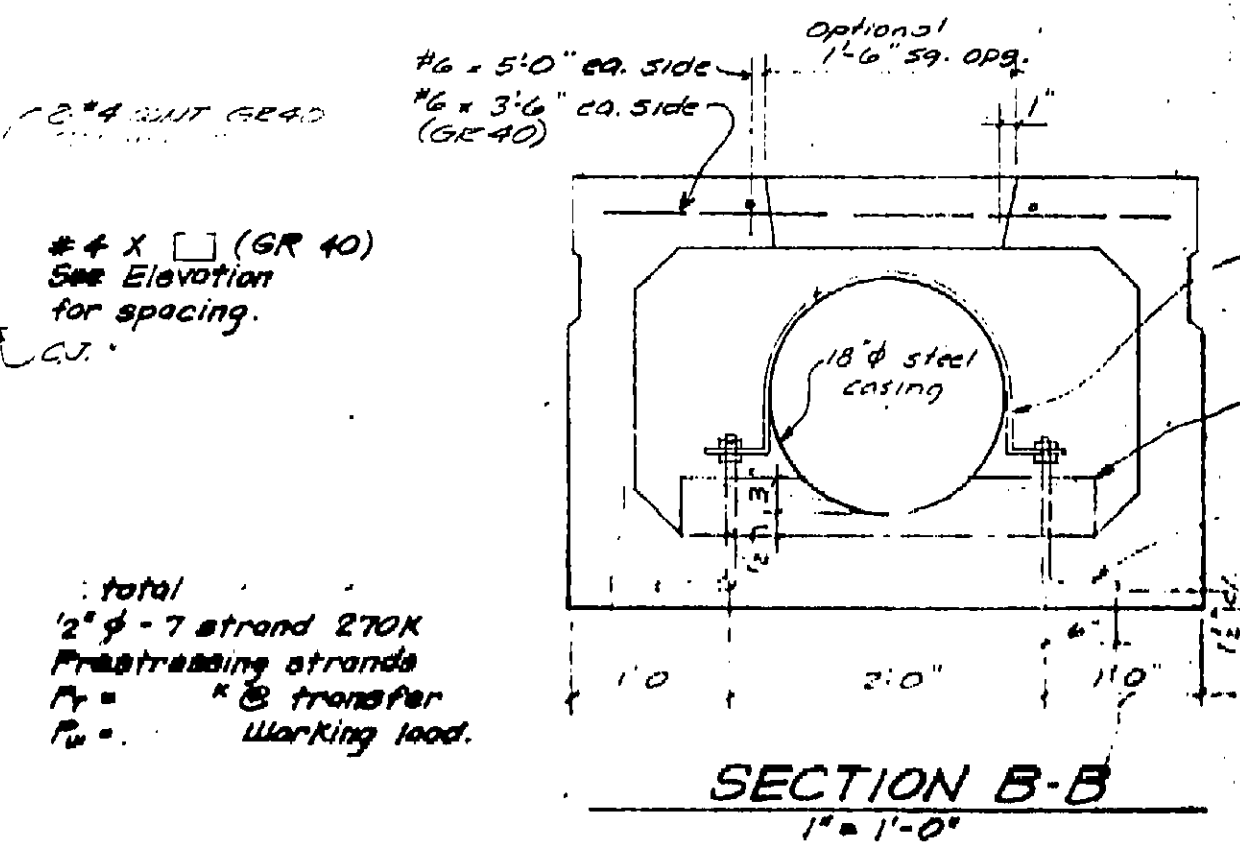
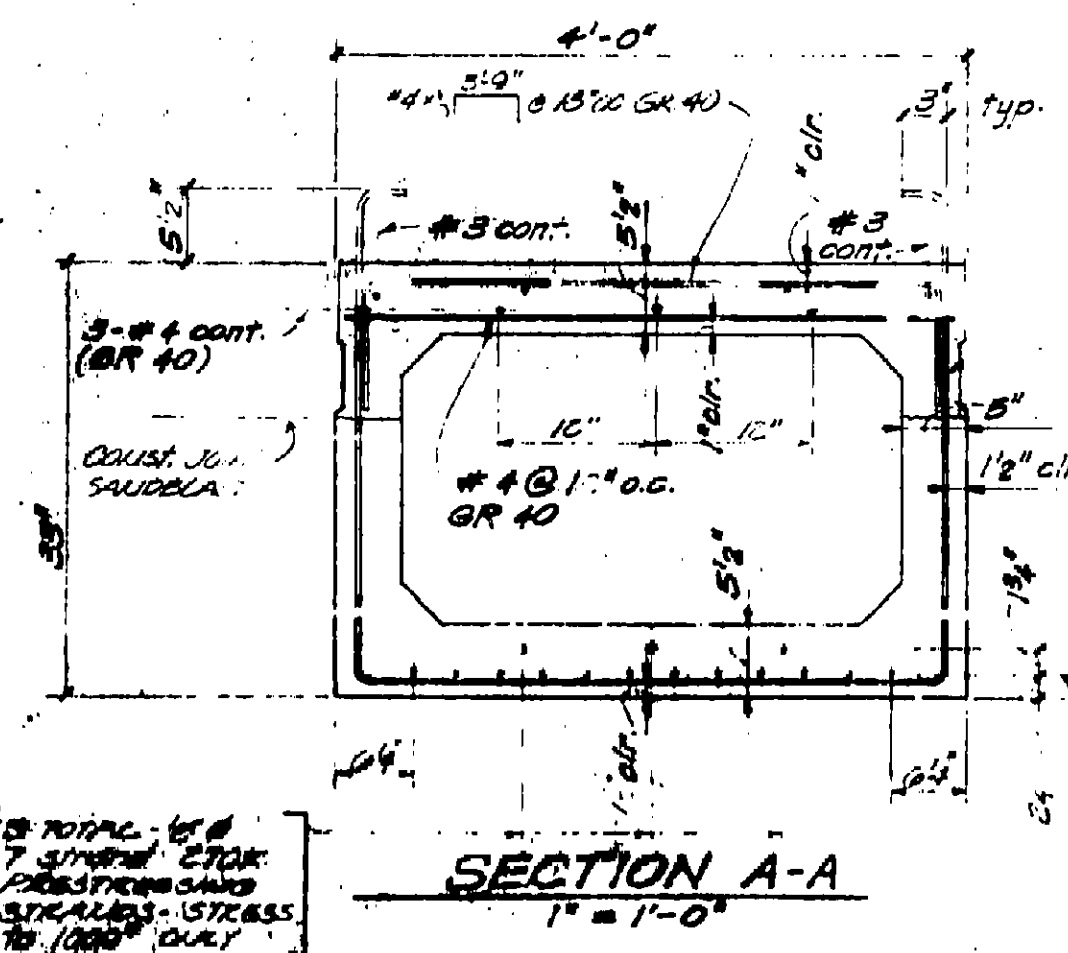


KEYWAY & CHAMFER DIMENSIONS



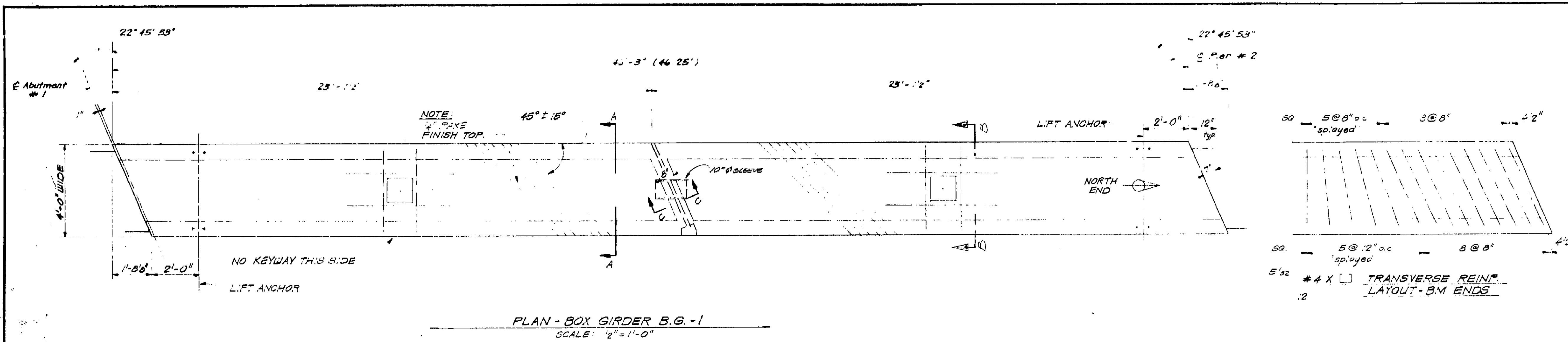


NOTE: Top of box girders shall be roughened to provide concrete bond to the top slab. Surfaces shall be roughened to 1/4" average texture. Sandblasting is not required.

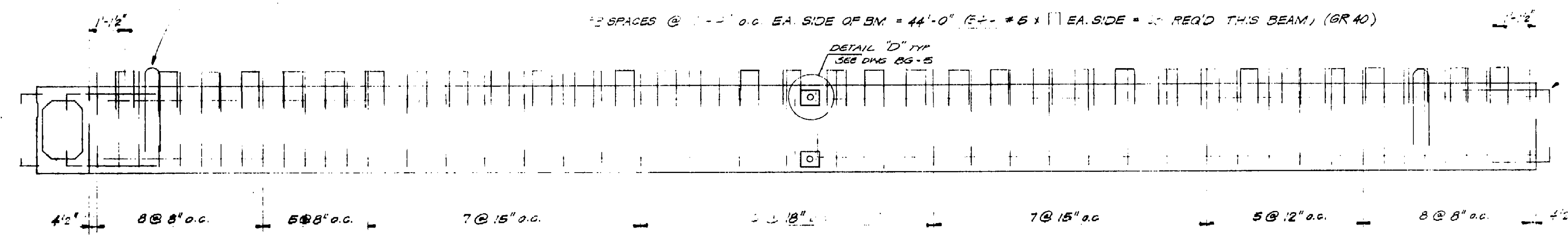


total
1/2" φ - 7 strand 270K
prestressing strands
F_y = 270
F_u = 360
Working load.

3 TOPS - 6 @ 7 strand 270K PRESTRESSING STRANDS - STRESS TO 100% DUCT

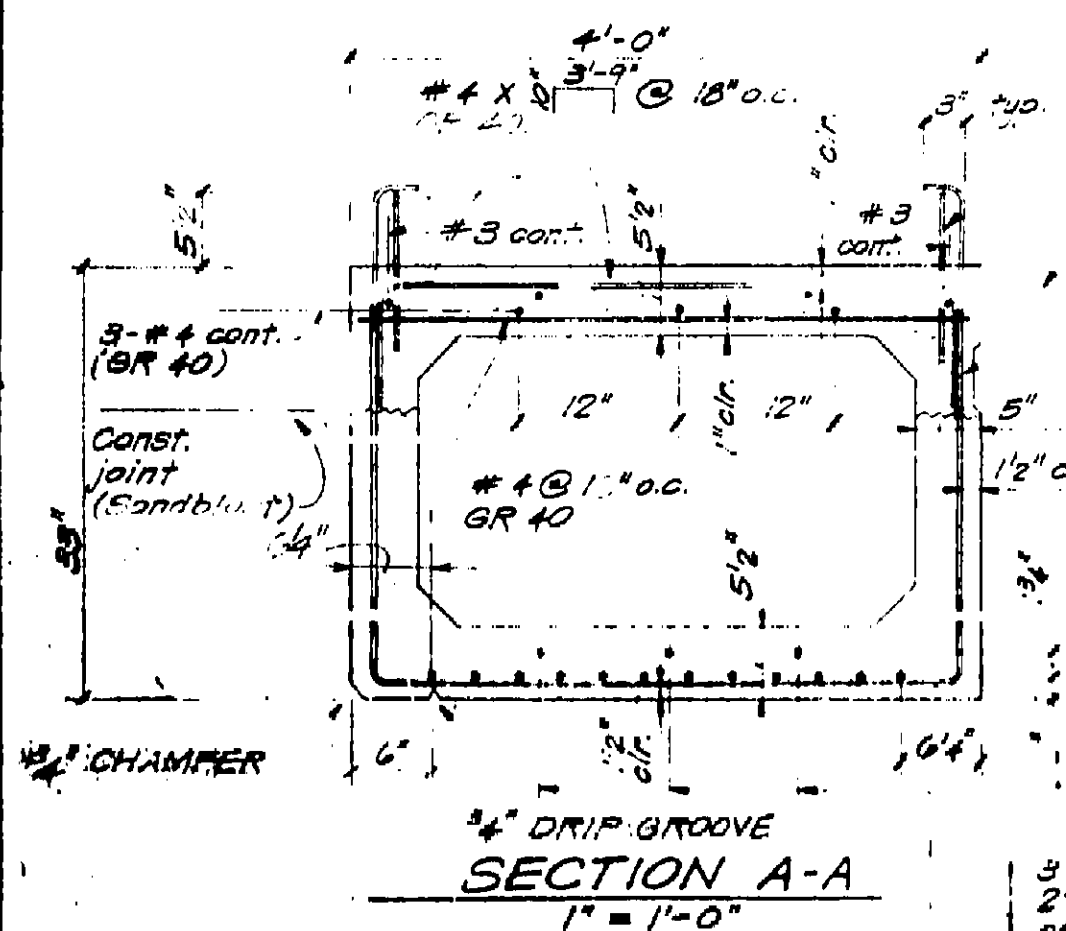


#6 LIFTING ANCHOR SEE DET. A, SHT. E-1.



Note: Top of box girders shall be raked or roughened to provide complete bond to 6" topping slab. Surface shall be roughened to 1/4" average texture. Sandblasting not required.

ELEVATION - BOX GIRDER B.G.-1 (ONE REQUIRED)
SCALE: 1/2" = 1'-0"



#5 X 1/2" @ 14" o.c.
See Elevation.
CLOSE UPS WITH 6" SLAB REIN.
2 #4 cont. GR 40 5/8" dia. side
2 #3 3/8" dia. side

#4 X 1/2" (GR 40)
See Elevation for spacing.

2" dia. 7 strand 270K Prestressing strands
F_p = 200,000 psi @ transfer
F_w = 150,000 psi Working load.

3 total 2" dia. 7 strand 270K Prestressing strands. Strands to 1000 # only.

