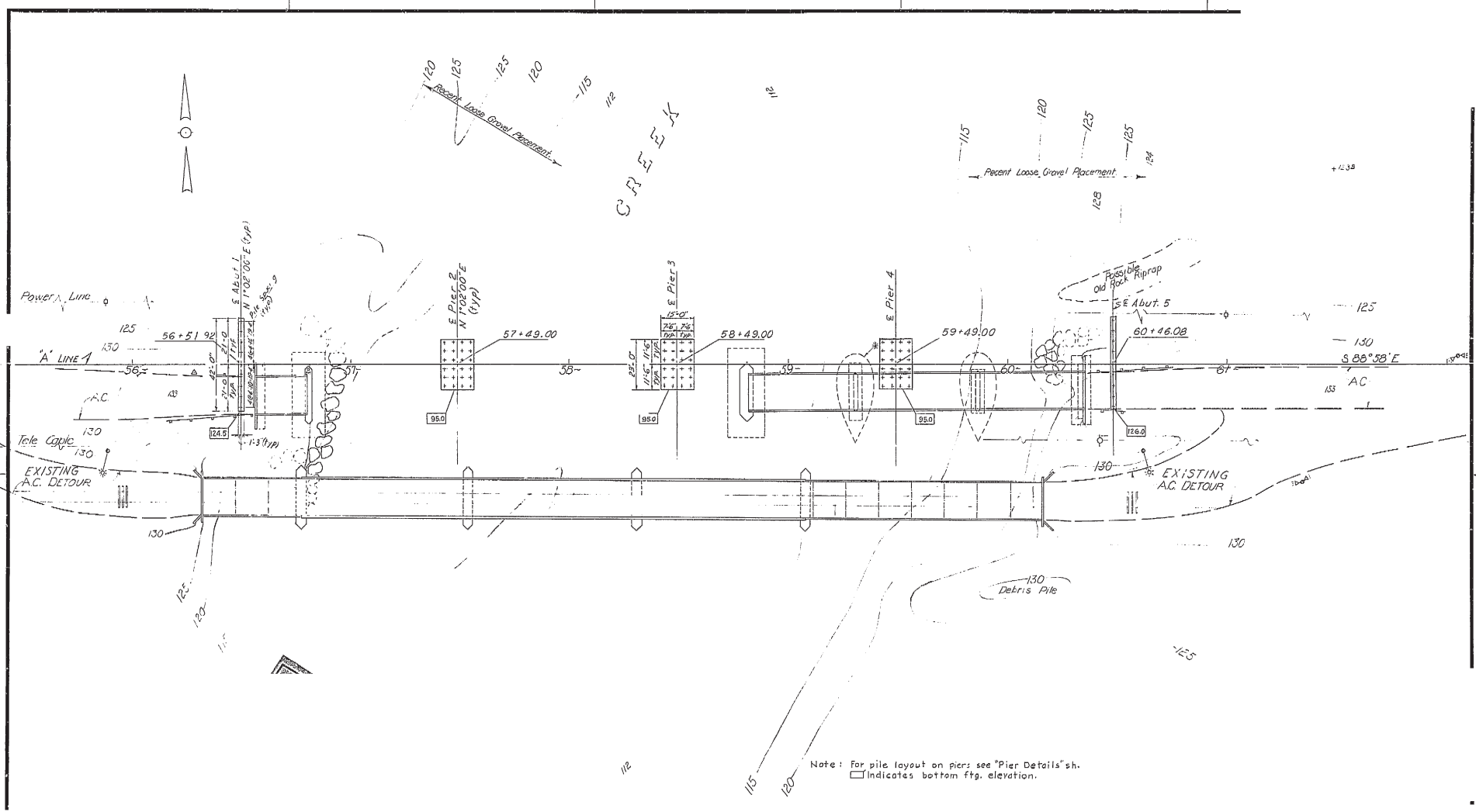




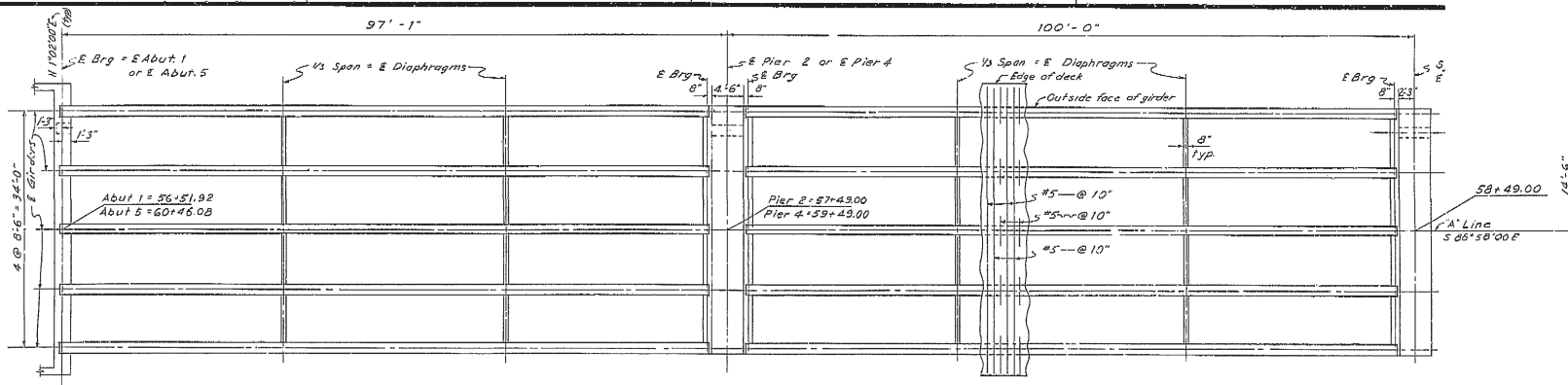
PLAN
Scale: 1" = 10'-0"

10

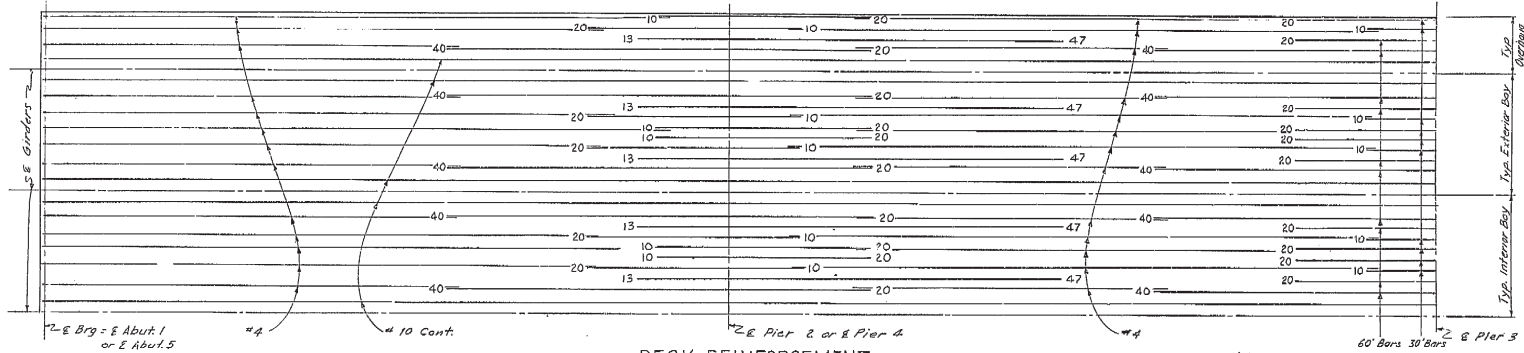


NOTE
 Superstructure of existing Highway Bridge will be removed before construction. Substructure will be removed before construction as follows:
 (1) Abutment 1 Complete
 (2) Pier 2 to Elev. 115.0
 (3) Pier 3 to Elev. 105.0
 (4) Pier 4 & 5 to Elev. 108.5
 (5) Abutment 6 to Elev. 122.0

GENERAL NOTES
 DESIGN: AASHO, DATED 1961 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.
 LIVE LOADING: HS 20-44 AND ALTERNATIVE
 REINFORCED CONCRETE: F_s = 20,000 P.S.I., N = 10
 F_c = 4,200 P.S.I.

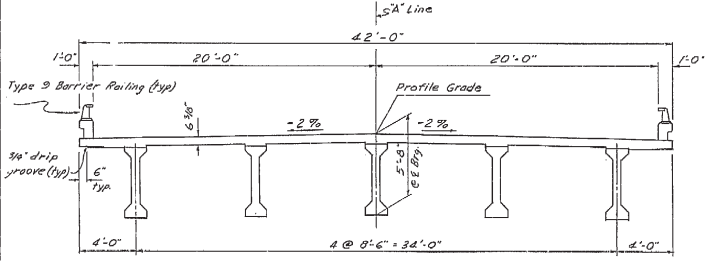


GIRDER LAYOUT
Scale 1/8" = 1'-0"

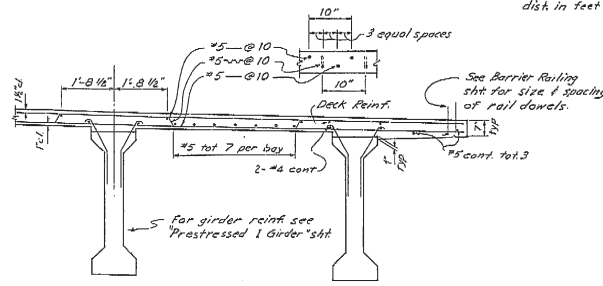


DECK REINFORCEMENT
Scale: None

Note:
All reinf. #10 unless otherwise noted.
Numbers at ends of bars indicate dist. in feet from E Bent

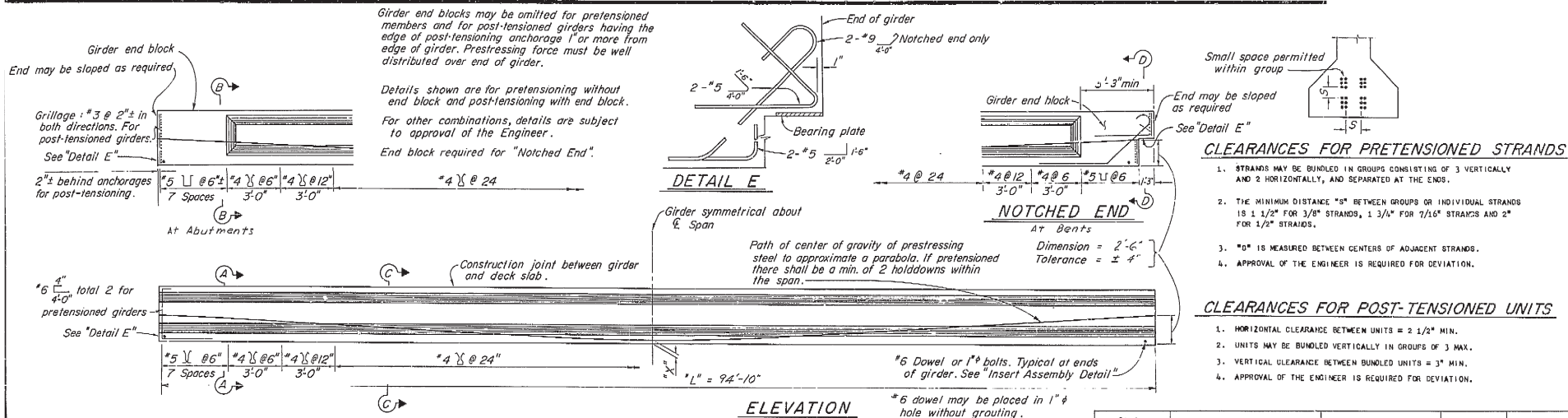


TYPICAL SECTION
Scale 1/4" = 1'-0"



PART SECTION
Scale 1/2" = 1'-0"

14



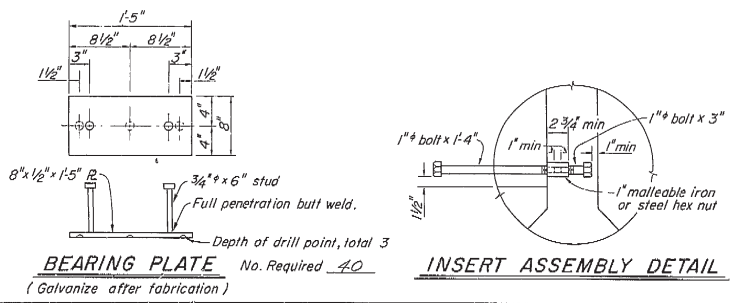
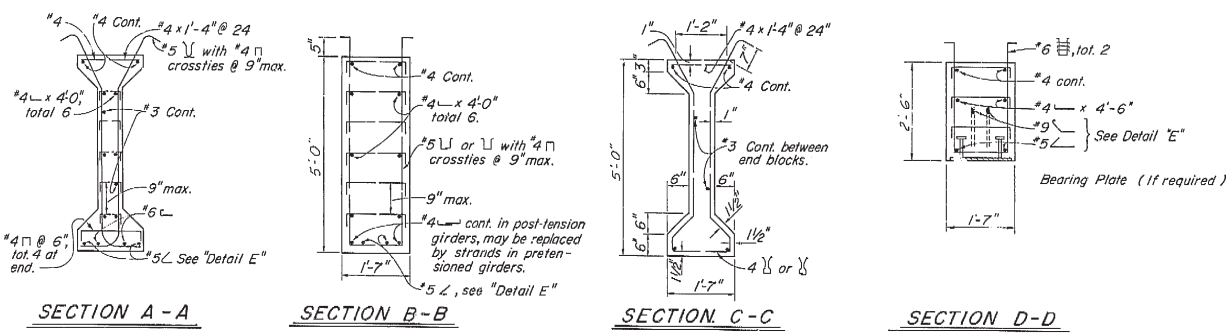
CLEARANCES FOR PRETENSIONED STRANDS

1. STRANDS MAY BE BUNDLED IN GROUPS CONSISTING OF 3 VERTICALLY AND 2 HORIZONTALLY, AND SEPARATED AT THE ENDS.
2. THE MINIMUM DISTANCE "S" BETWEEN GROUPS OR INDIVIDUAL STRANDS IS 1 1/2" FOR 3/8" STRANDS, 1 3/4" FOR 7/16" STRANDS AND 2" FOR 1/2" STRANDS.
3. "S" IS MEASURED BETWEEN CENTERS OF ADJACENT STRANDS.
4. APPROVAL OF THE ENGINEER IS REQUIRED FOR DEVIATION.

CLEARANCES FOR POST-TENSIONED UNITS

1. HORIZONTAL CLEARANCE BETWEEN UNITS = 2 1/2" MIN.
2. UNITS MAY BE BUNDLED VERTICALLY IN GROUPS OF 3 MAX.
3. VERTICAL CLEARANCE BETWEEN BUNDLED UNITS = 3" MIN.
4. APPROVAL OF THE ENGINEER IS REQUIRED FOR DEVIATION.

Girder Location or Designation (Length)	P_i = Working force, lbs		Concrete Strength		Deflection of ℓ Span due to GIP Slab	Camber @ ℓ Span	
	"X"	Post-ten	Pre-ten	Post-ten			Pre-ten
44'-10"	4"	609,000	621,000	$f'_c = 4300$	$f'_c = 3500$	0.12'	0.08'
	5"	617,000	633,000	$f'_c = 4300$	$f'_c = 4400$		
	6"	635,000	656,000	$f'_c = 4300$	$f'_c = 4400$		



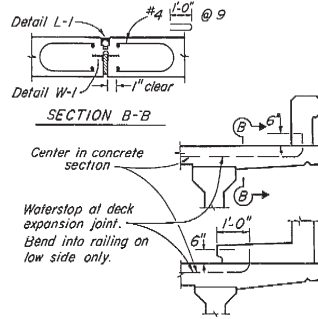
PRESTRESSING NOTES

Working Force : The force remaining per girder after all losses.

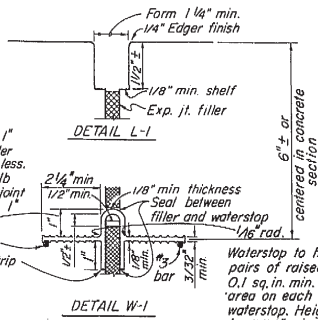
Concrete Strength : f'_c is at time of initial stressing, f'_c is at 28 days, p.s.i.

Camber : Soffit is to be cast parabolic with value shown as ordinate at ℓ span.

Screed line will be determined by the Engineer.



DECK AND SIDEWALK JOINTS

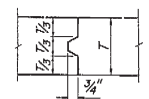
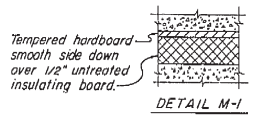


Holes will be permitted in the outer 1/2" of the web for wires, rings, etc. The web to #3 reinforcing bars at 12" max. intervals to support the waterstop in proper position during concrete placement. Alternative detail may be submitted for approval of the Engineer.

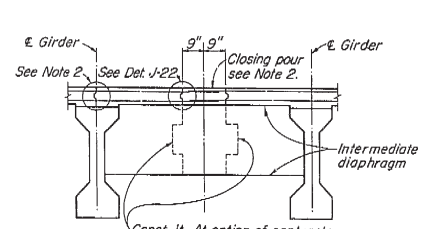
SEALED DECK JOINT

DECK PLACING NOTES

1. Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.
2. When the longitudinal construction joint is used, a 1'-6" closing pour must be used for spans greater than 70'. For shorter spans, either a closing pour or a joint over the ϵ girder may be used.
3. In general transverse deck construction joints will not be permitted in simple spans.
4. Contractor shall submit deck placing schedule for approval by the Engineer.
5. Completion of intermediate diaphragms below the closing pour panel will not be permitted until deck slabs have been placed on both sides of the splice section.
6. The longitudinal deck closing pour shall not be placed until 3 days after placing of adjacent slabs.
7. Reinforcing shall be continuous through all construction joints.

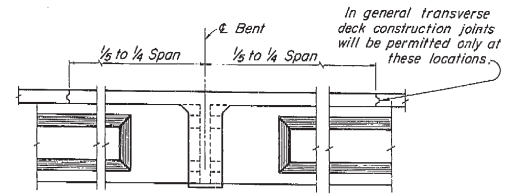


DETAIL J-22



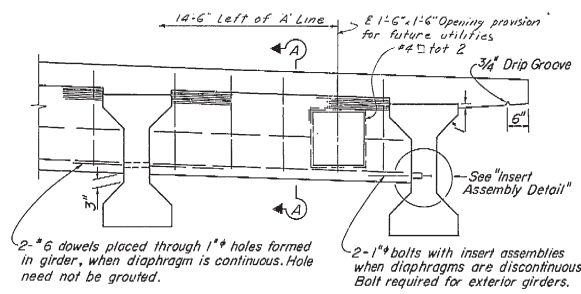
Const. It. At option of contractor the diaphragm may be placed in one pour (after deck pour is made) or the center portion may be placed with a closing pour.

LONGITUDINAL CONSTRUCTION JOINTS

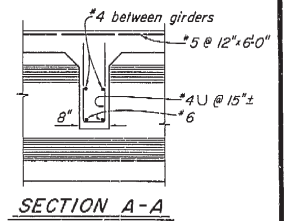


DETAIL OF CONTINUOUS SLAB OVER BENT

Placing Sequence:
 Except when deck for continuous slab is placed in a single pour the deck shall be placed in the center halves of adjacent spans before the deck is placed over the bent.
 End diaphragm shall be placed at time deck over bent is placed.



PART SECTION NEAR INTERMEDIATE DIAPHRAGM



SECTION A-A