

PRESTRESSING NOTES

Working Force: The force required of center of span after all losses.

Concrete Strength: $f' c_i$ is at time of initial stressing, $f' c$ is at 28 days, psi.

Camber: Girder camber immediately after the deck and barriers have been placed.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between those shown

CALIF. I

Girder location or designation and length	P "X"	Working force in Kips. at \bar{C} Span	Concrete Strength		Girder def' / deu to c/cp/cow/c
			$f' c_i$	$f' c$	
SPANS 1 & 5 INTERIOR $L^* = 69'-6"$	4	450	4000	5200	$1/2"$
	6	480			
SPANS 1 & 5 EXTERIOR $L^* = 69'-6"$	4	440	4000	5200	$1/2"$
	6	470			
SPANS 2,3,4 $L^* = 85'-0"$	4	560	4000	5200	$1/4"$
	6	590			

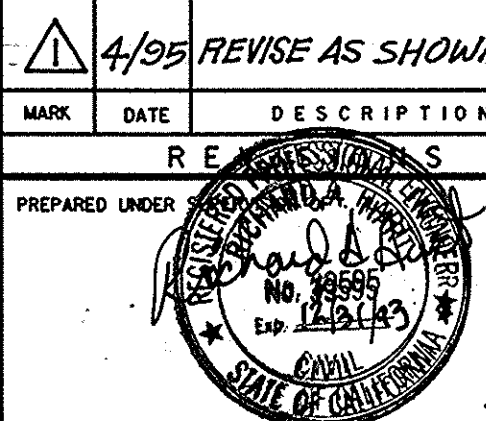
AASHTO TYPE IV

Girder location	P "X"	Working force in Kips. at \bar{C} Span	Concrete Strength		Girder def' / deu to c/cp/cow/c
			$f' c_i$	$f' c$	
SPANS 1 & 5 INTERIOR $L^* = 69'-6"$	4	480	4000	5200	$1/2"$
	6	510			
SPANS 1 & 5 EXTERIOR $L^* = 69'-6"$	4	470	4000	5200	$1/2"$
	6	500			
SPANS 2,3,4 $L^* = 85'-0"$	4	615	4000	5200	1"
	6	655			

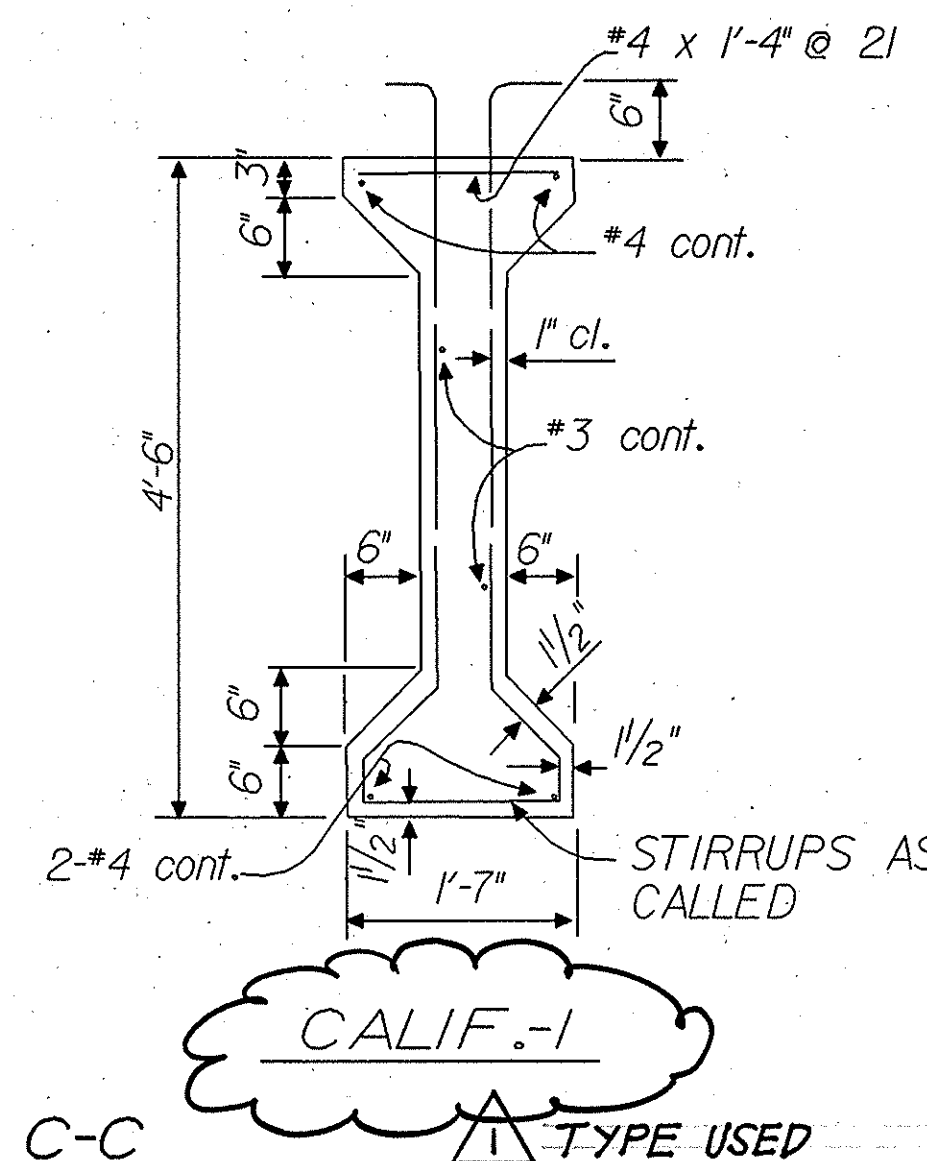
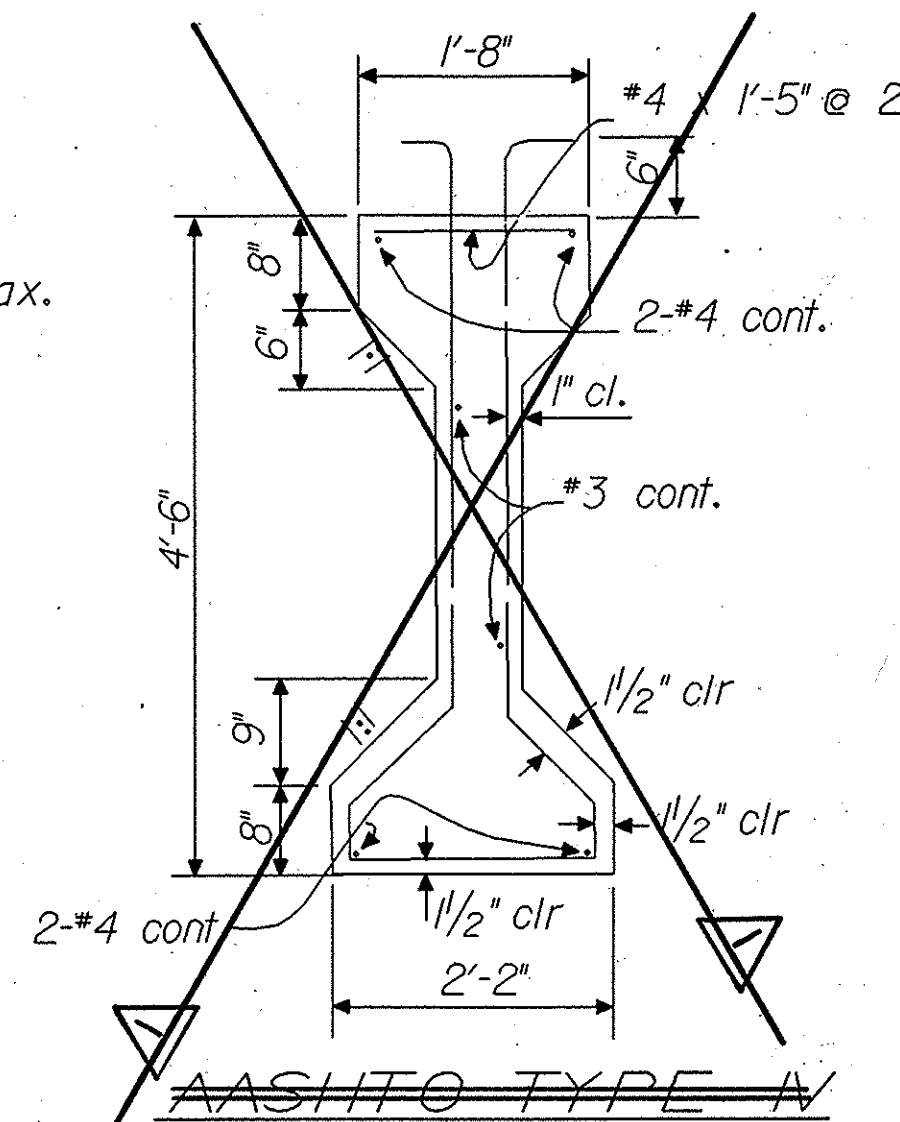
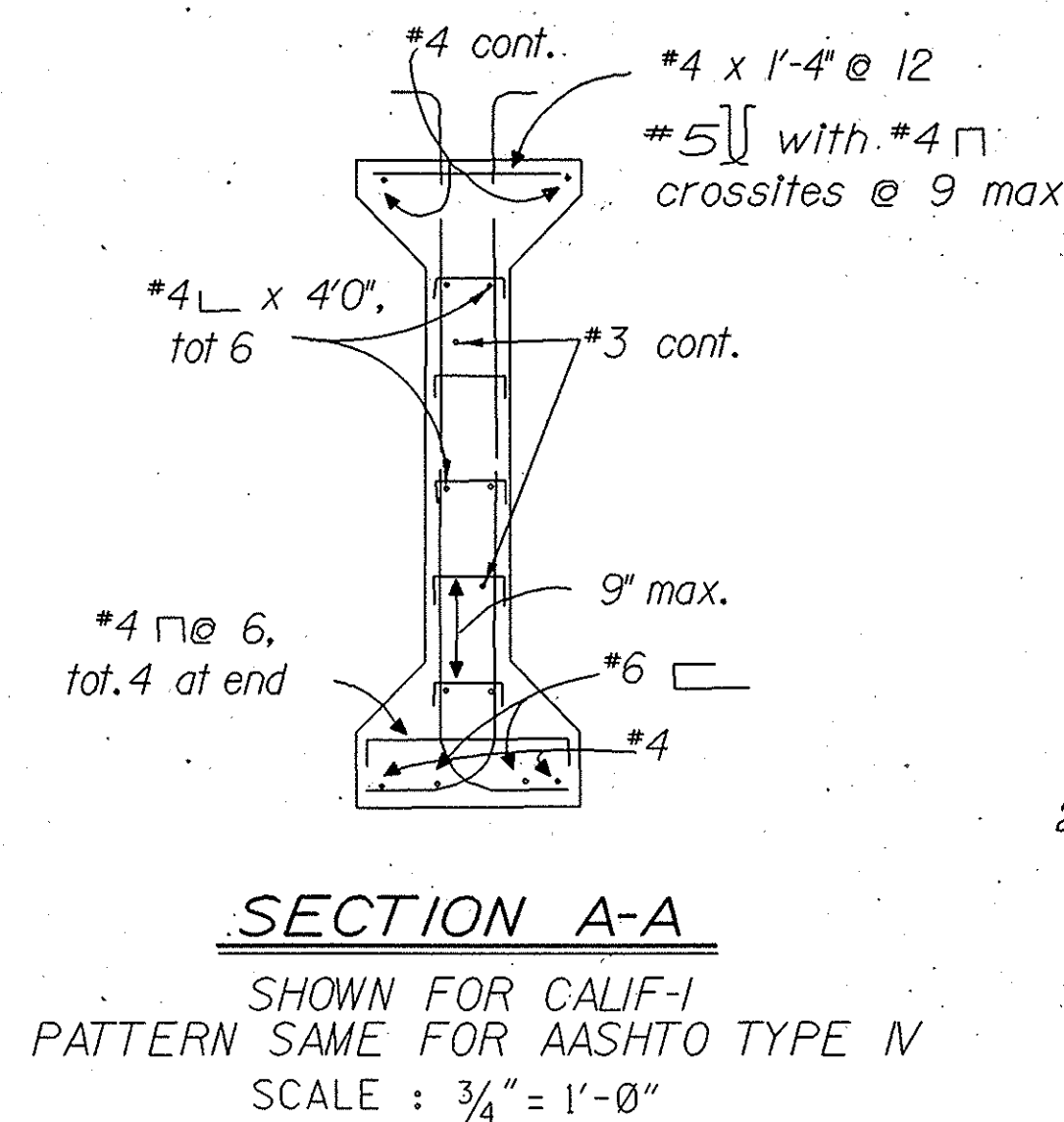
*L GIVEN ARE NOMINAL LENGTHS. CONTRACTOR SHALL VERIFY EXACT LENGTHS OF GIRDERS BASED ON PLANS AND ANTICIPATED SHORTENING.

NOTE:

Details shown are for Prestressed girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

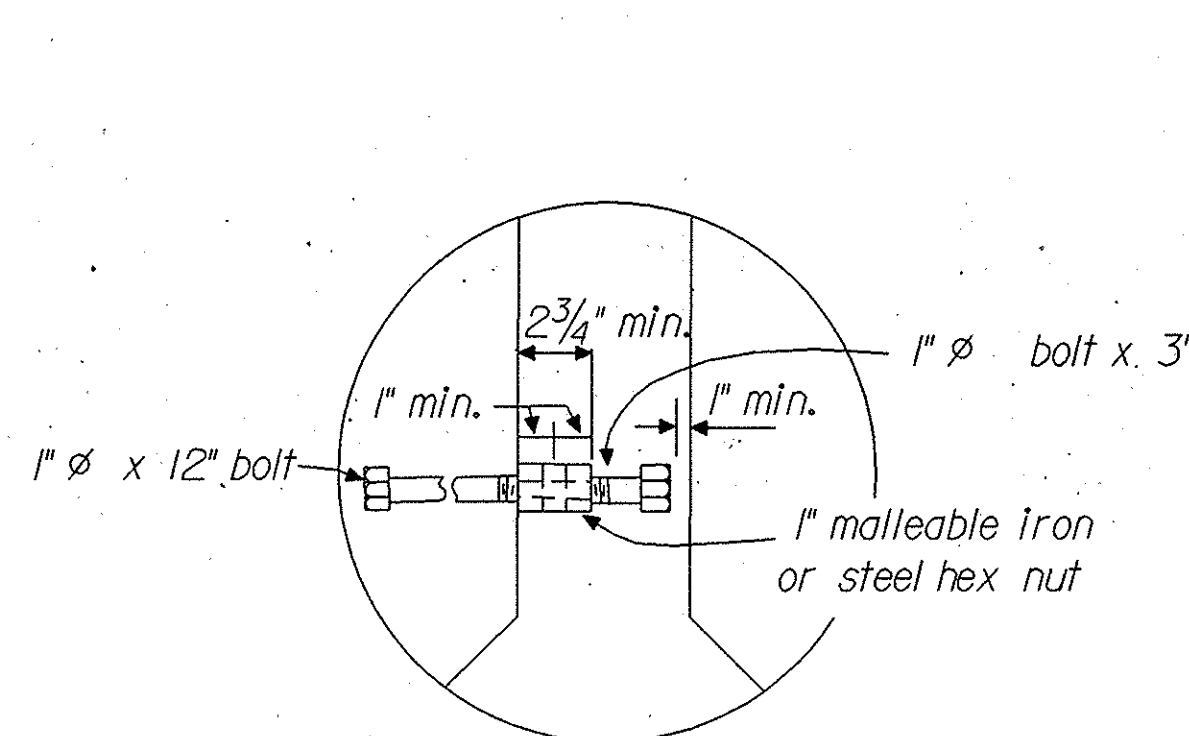
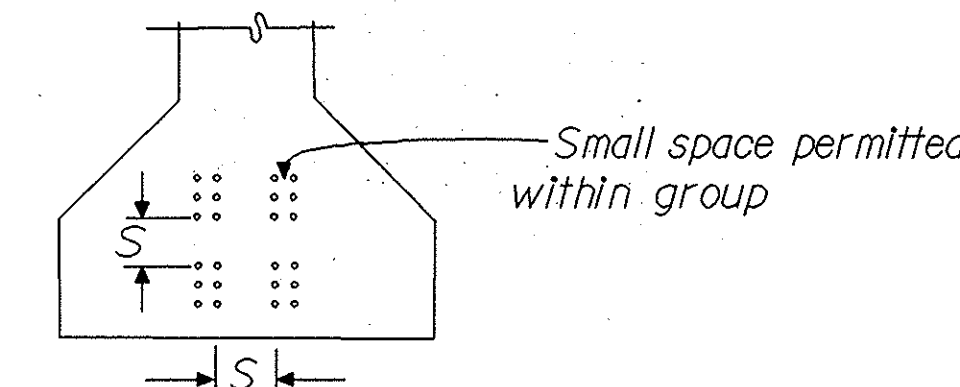
		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY HARBOR BLVD. IMPROVEMENTS BRIDGE PRESTRESSED I GIRDER	
4/95 REVISE AS SHOWN MARK DATE DESCRIPTION PREPARED UNDER RICHARD A. HART RCE 39595 (EXP. 12-31-93)	DESIGNED RB/RH DRAWN HP SCALE AS SHOWN DATE 3/93	CHECKED RH DRAWING NO. DATE 3/93	SHEET 28 OF 60

RECORD DRAWING

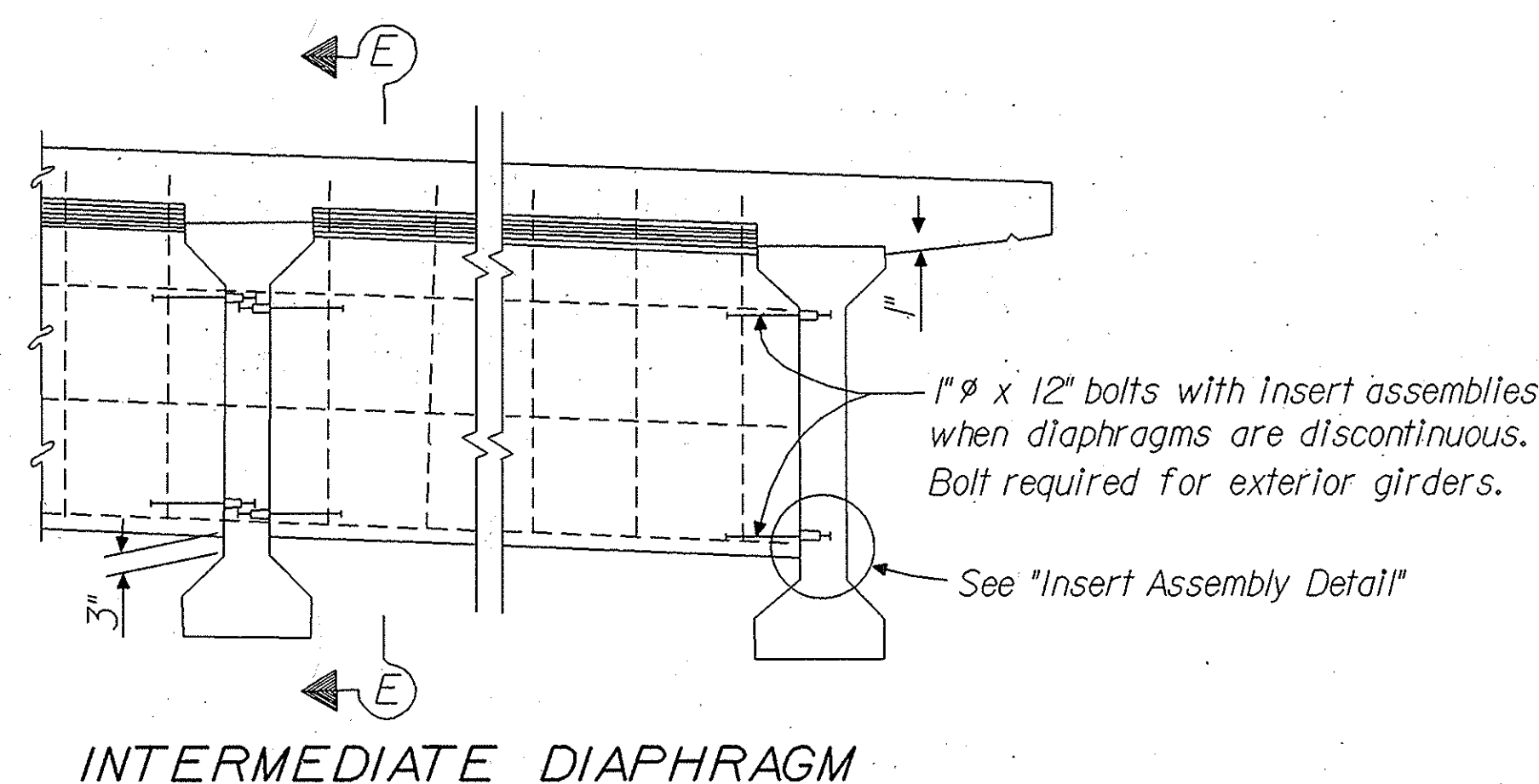


CLEARANCES FOR PRETENSIONED STRANDS

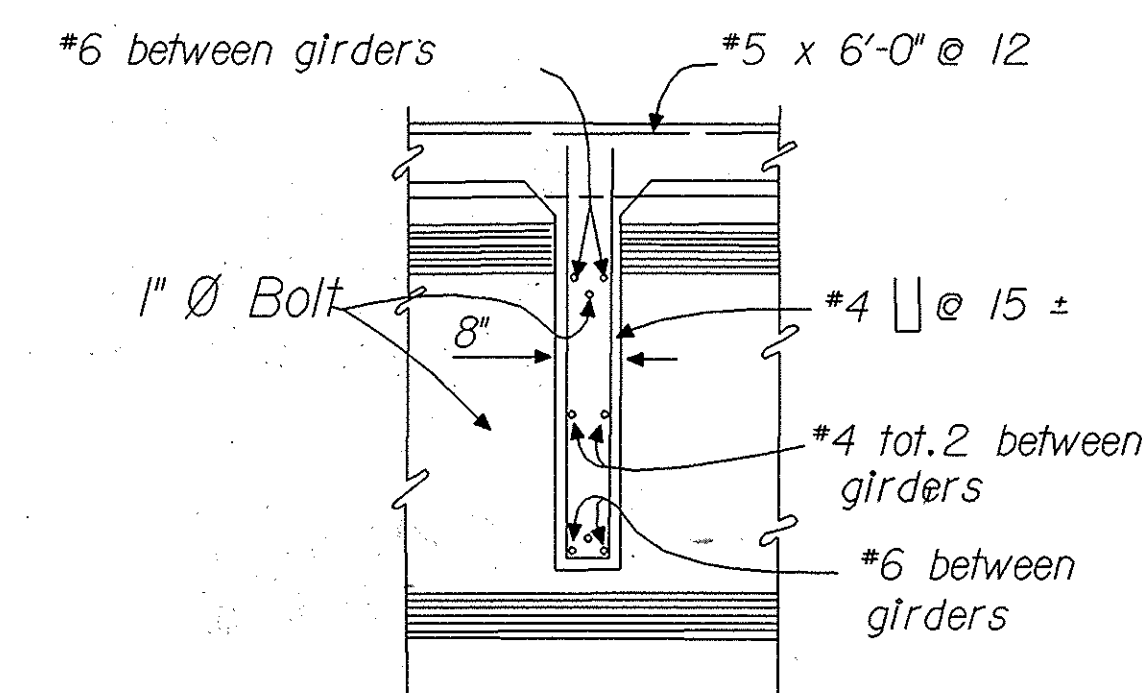
1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally and separated at the ends.
2. The min distance "S" between groups or individual strands is $1/2"$ for $3/8"$ strands, $1 3/4"$ for $1/16"$ strands and $2"$ for $1/2"$ strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.



INSERT ASSEMBLY DETAIL



INTERMEDIATE DIAPHRAGM



SECTION E-E